

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> NBU 922-33L4BS			
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES			
<b>4. TYPE OF WELL</b> Gas Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> NATURAL BUTTES			
<b>6. NAME OF OPERATOR</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.						<b>7. OPERATOR PHONE</b> 720 929-6515			
<b>8. ADDRESS OF OPERATOR</b> P.O. Box 173779, Denver, CO, 80217						<b>9. OPERATOR E-MAIL</b> julie.jacobson@anadarko.com			
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-01191-A			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>			
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>			
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2440 FNL 705 FWL	SWNW	33	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	1740 FSL 822 FWL	NWSW	33	9.0 S	22.0 E	S
At Total Depth	1740 FSL 822 FWL	NWSW	33	9.0 S	22.0 E	S

<b>21. COUNTY</b> UINTAH		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 822		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 1363	
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 725		<b>26. PROPOSED DEPTH</b> MD: 10301 TVD: 10124	
<b>27. ELEVATION - GROUND LEVEL</b> 4934		<b>28. BOND NUMBER</b> WYB000291		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-8496	

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2340	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 10301	11.6	HCP-110 LT&C	12.5	Premium Lite High Strength	300	3.38	12.0
							50/50 Poz	1530	1.31	14.3

ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Gina Becker	<b>TITLE</b> Regulatory Analyst II	<b>PHONE</b> 720 929-6086
<b>SIGNATURE</b>	<b>DATE</b> 12/14/2012	<b>EMAIL</b> gina.becker@anadarko.com
<b>API NUMBER ASSIGNED</b> 43047533860000		<b>APPROVAL</b> <div style="text-align: center;">             Permit Manager         </div>

**Kerr-McGee Oil & Gas Onshore. L.P.****NBU 922-33L4BS**

Surface:	2440 FNL / 705 FWL	SWNW
BHL:	1740 FSL / 822 FWL	NWSW

Section 33 T9S R22E

Unitah County, Utah  
Mineral Lease: UTU-01191-A

**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

- 1. & 2.a** **Estimated Tops of Important Geologic Markers:**  
**Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,132'	
Birds Nest	1,462'	Water
Mahogany	1,893'	Water
Wasatch	4,350'	Gas
Mesaverde	6,834'	Gas
Sego	9,032'	Gas
Castlegate	9,101'	Gas
Blackhawk	9,524'	Gas
TVD =	10,124'	
TD =	10,301'	

- 2.c** Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

- 3.** **Pressure Control Equipment** (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

**4. Proposed Casing & Cementing Program:**

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

**5. Drilling Fluids Program:**

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

**6. Evaluation Program:**

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

**7. Abnormal Conditions:****7.a Blackhawk (Part of Mesaverde Group)**

Maximum anticipated bottom hole pressure calculated at 10124' TVD, approximately equals  
6,479 psi (0.64 psi/ft = actual bottomhole gradient)

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Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,238 psi (bottom hole pressure  
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-  
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

**7.b Wasach Formation/Mesaverde Group**

Maximum anticipated bottom hole pressure calculated at 9032' TVD, approximately equals  
5,510 psi (0.61 psi/ft = actual bottomhole gradient)

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Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,546 psi (bottom hole pressure  
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-  
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

**8. Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

**9. Variances:**

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

**10. Other Information:**

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



**KERR-McGEE OIL & GAS ONSHORE LP**  
**Blackhawk Drilling Program**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	November 8, 2012		
WELL NAME	NBU 922-33L4BS					TD	10,124'		10,301' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION			4,934'
SURFACE LOCATION	SWNW	2440 FNL	705 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.993094	Longitude:	-109.451905		NAD 83			
BTM HOLE LOCATION	NWSW	1740 FSL	822 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.990037	Longitude:	-109.451478		NAD 83			
OBJECTIVE ZONE(S)	BLACKHAWK (Part of the Mesaverde Group)								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
			11.00'	8-5/8", 28#, IJ-55, LTC	Air mist
	<b>Green River @</b>	<b>1,132'</b>			
	<b>Top of Birds Nest @</b>	<b>1,462'</b>			
	<b>Mahogany @</b>	<b>1,893'</b>			
	<b>Preset f/ GL @</b>	<b>2,340' TVD</b>			
	Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.				
	<b>Wasatch @</b>	<b>4,350'</b>			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# HCP-110 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.5 ppg
	<b>Mesaverde @</b>	<b>6,834' TVD</b>			
	<b>Sego @</b>	<b>9,032' TVD</b>			
	<b>Castlegate @</b>	<b>9,101' TVD</b>			
	<b>Blackhawk</b>	<b>9,524' TVD</b>			
Max anticipated Mud required 12.5 ppg	<b>TD @</b>	<b>10,124' TVD 10,301' MD</b>			





## KERR-McGEE OIL & GAS ONSHORE LP

### Blackhawk Drilling Program

**CASING PROGRAM**

						DESIGN FACTORS			
						LTC		DQX	
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'							
							3,390	1,880	348,000
SURFACE	8-5/8"	0	to 2,340	28.00	IJ-55	LTC	2.30	1.72	6.07
							10,690	8,650	279,000
PRODUCTION	4-1/2"	0	to 5,000	11.60	HCP-110	DQX	1.19	1.31	3.80
	4-1/2"	5,000	to 10,301'	11.60	HCP-110	LTC	1.19	1.31	5.61

**Surface Casing:**

(Burst Assumptions: TD = 12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2							
	LEAD	1,840'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00	2.86
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,841'	Premium Lite II +0.25 pps	300	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,460'	50/50 Poz/G + 10% salt + 2% gel	1,530	35%	14.30	1.31
			+ 0.1% R-3				

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

If extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER: Nick Spence / Danny Showers / Travis Hansell

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT: Kenny Gathings / Lovel Young

DATE: \_\_\_\_\_

NBU 922-33E Pad- Drilling Program Approved by Drilling- 110912.xlsx

RECEIVED: December 11, 2012



COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	November 8, 2012		
WELL NAME	NBU 922-33L4BS					TD	9,032'		9,209' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION			4,934'
SURFACE LOCATION	SWNW	2440 FNL	705 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.993094	Longitude:	-109.451905		NAD 83			
BTM HOLE LOCATION	NWSW	1740 FSL	822 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.990037	Longitude:	-109.451478		NAD 83			
OBJECTIVE ZONE(S)	Wasatch Formation/Mesaverde Group								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								

GEOLOGICAL FORMATION				MECHANICAL		
LOGS	TOPS	DEPTH		HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'			14"	
				12-1/4"	8-5/8", 28#, IJ-55, LTC	Air mist
All water flows encountered while drilling will be reported to the appropriate agencies.				11.00'	8-5/8", 28#, IJ-55, LTC	Air mist
<b>Green River @</b>		1,132'				
<b>Top of Birds Nest @</b>		1,462'				
<b>Mahogany @</b>		1,893'				
<b>Preset f/ GL @</b>		2,340' TVD				
Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.						
<b>Wasatch @</b>		4,350'				
Mud logging program TBD Cased hole logging program from TD - surf csg				7-7/8"	4-1/2" 11.6# I-80 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
<b>Mesaverde @</b>		6,834' TVD				
<b>Sego @</b>		9,032' TVD				
Max anticipated Mud required 12.0 ppg		9,032' TVD				
<b>TD @</b>		9,209' MD				



## KERR-McGEE OIL & GAS ONSHORE LP

### Wasatch/Mesaverde Drilling Program

**CASING PROGRAM**

						DESIGN FACTORS			
						LTC		DQX	
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'							
							3,390	1,880	348,000
SURFACE	8-5/8"	0	to 2,340	28.00	IJ-55	LTC	2.30	1.72	6.07
							7,780	6,350	267,035
PRODUCTION	4-1/2"	0	to 5,000	11.60	I-80	DQX	1.11	1.13	3.06
							7,780	6,350	223,000
	4-1/2"	5,000	to 9,209'	11.60	I-80	LTC	1.11	1.13	5.59

**Surface Casing:**

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>					
Option 2							
	LEAD	1,840'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00	2.86
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,849'	Premium Lite II +0.25 pps	300	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,360'	50/50 Poz/G + 10% salt + 2% gel	1,270	35%	14.30	1.31
			+ 0.1% R-3				

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

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PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER: Nick Spence / Danny Showers / Travis Hansell

DATE: \_\_\_\_\_

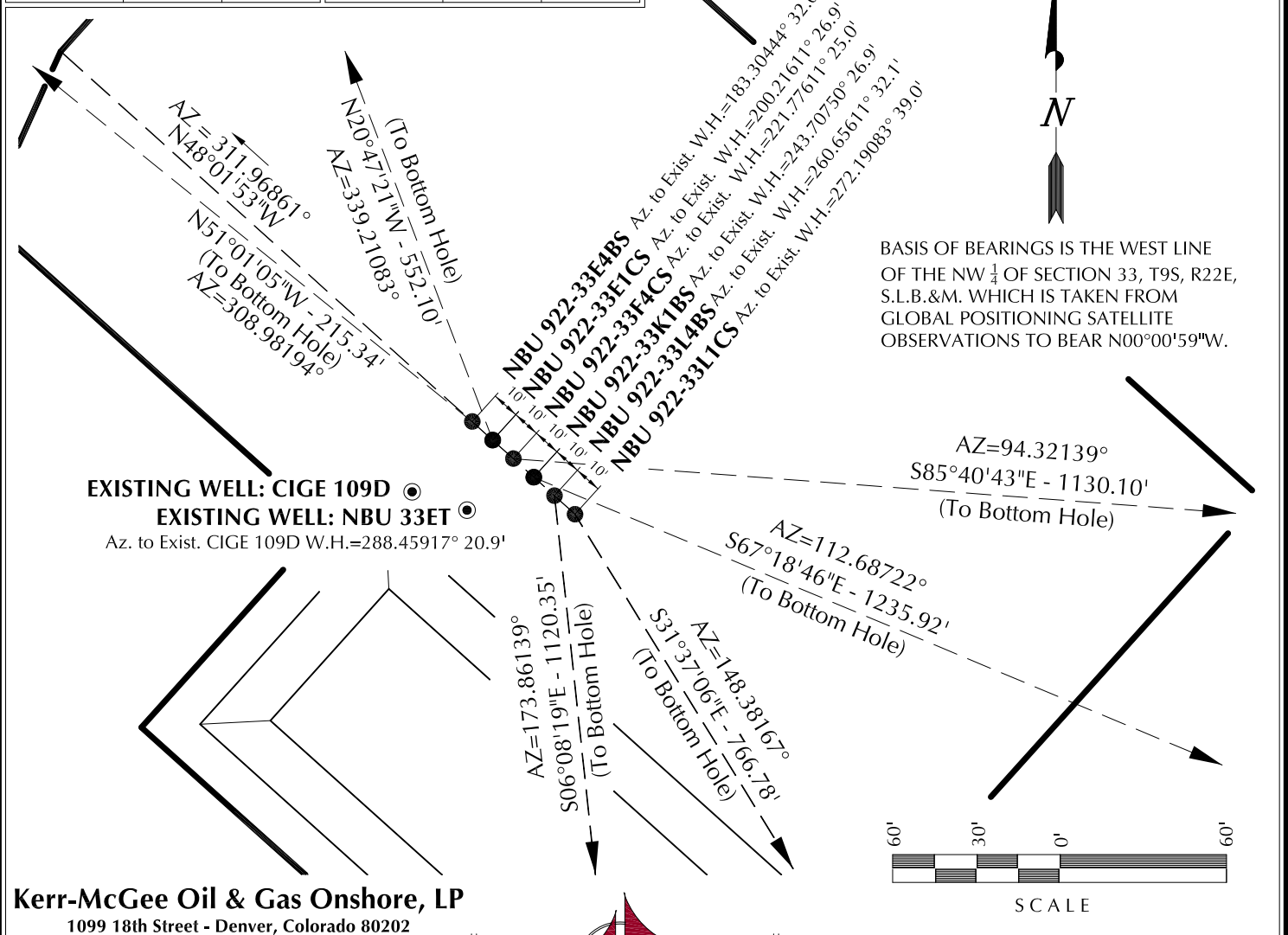
DRILLING SUPERINTENDENT: Kenny Gathings / Lovel Young

DATE: \_\_\_\_\_

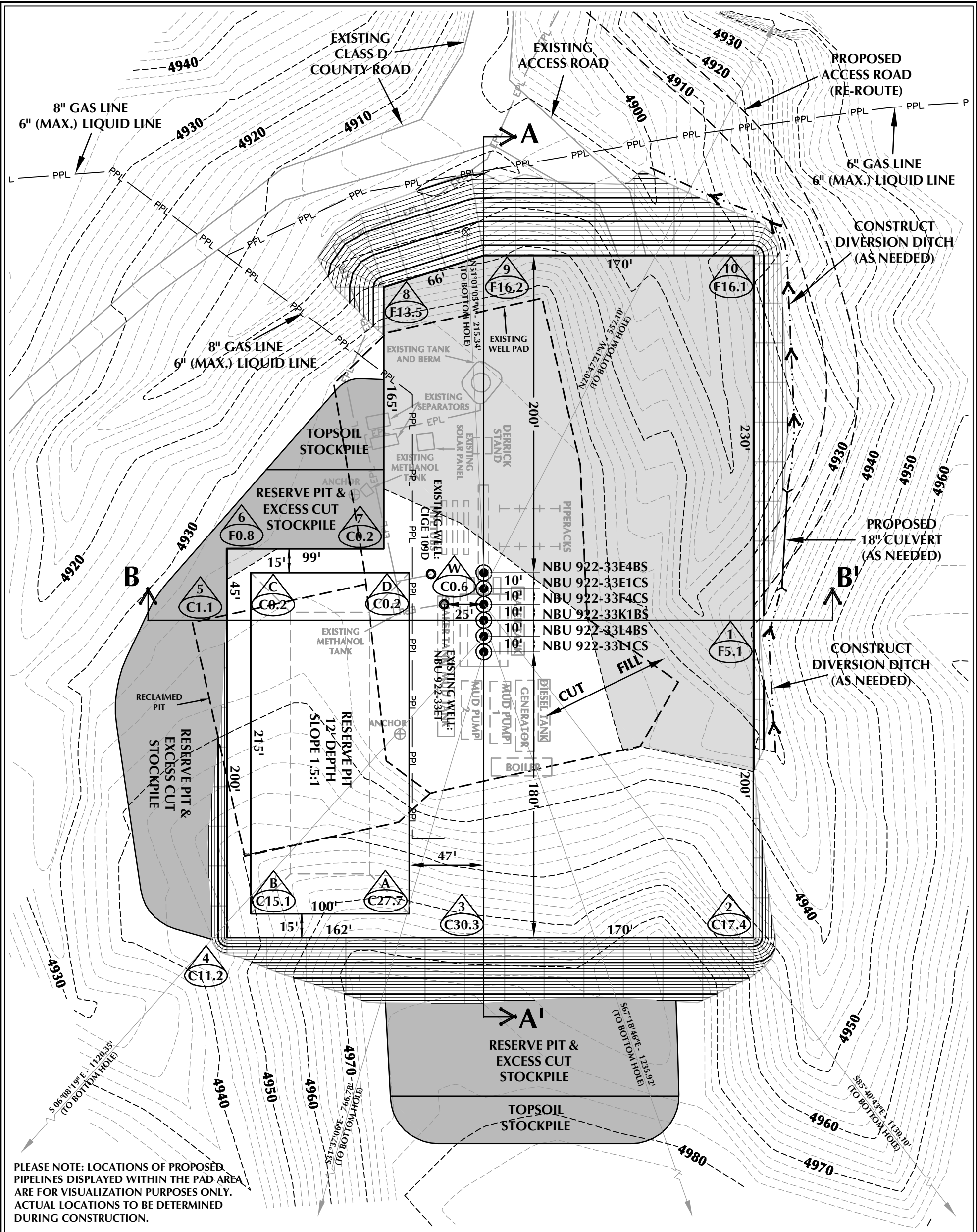
NBU 922-33E Pad- Drilling Program Approved by Drilling- 110912.xlsx

RECEIVED: December 11, 2012









PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 922-33E DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4935.0'  
FINISHED GRADE ELEVATION = 4934.4'  
CUT SLOPES = 1:1  
FILL SLOPES = 1.5:1  
TOTAL WELL PAD AREA = 3.58 ACRES  
TOTAL DISTURBANCE AREA = 4.40 ACRES  
SHRINKAGE FACTOR = 1.10  
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-33E

WELL PAD - LOCATION LAYOUT  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC  
2155 North Main Street  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 27,648 C.Y.  
TOTAL FILL FOR WELL PAD = 25,778 C.Y.  
TOPSOIL @ 6" DEPTH = 2,155 C.Y.  
EXCESS MATERIAL = 1,870 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT  
+/- 7,230 C.Y.  
RESERVE PIT CAPACITY (2' OF FREEBOARD)  
+/- 27,440 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

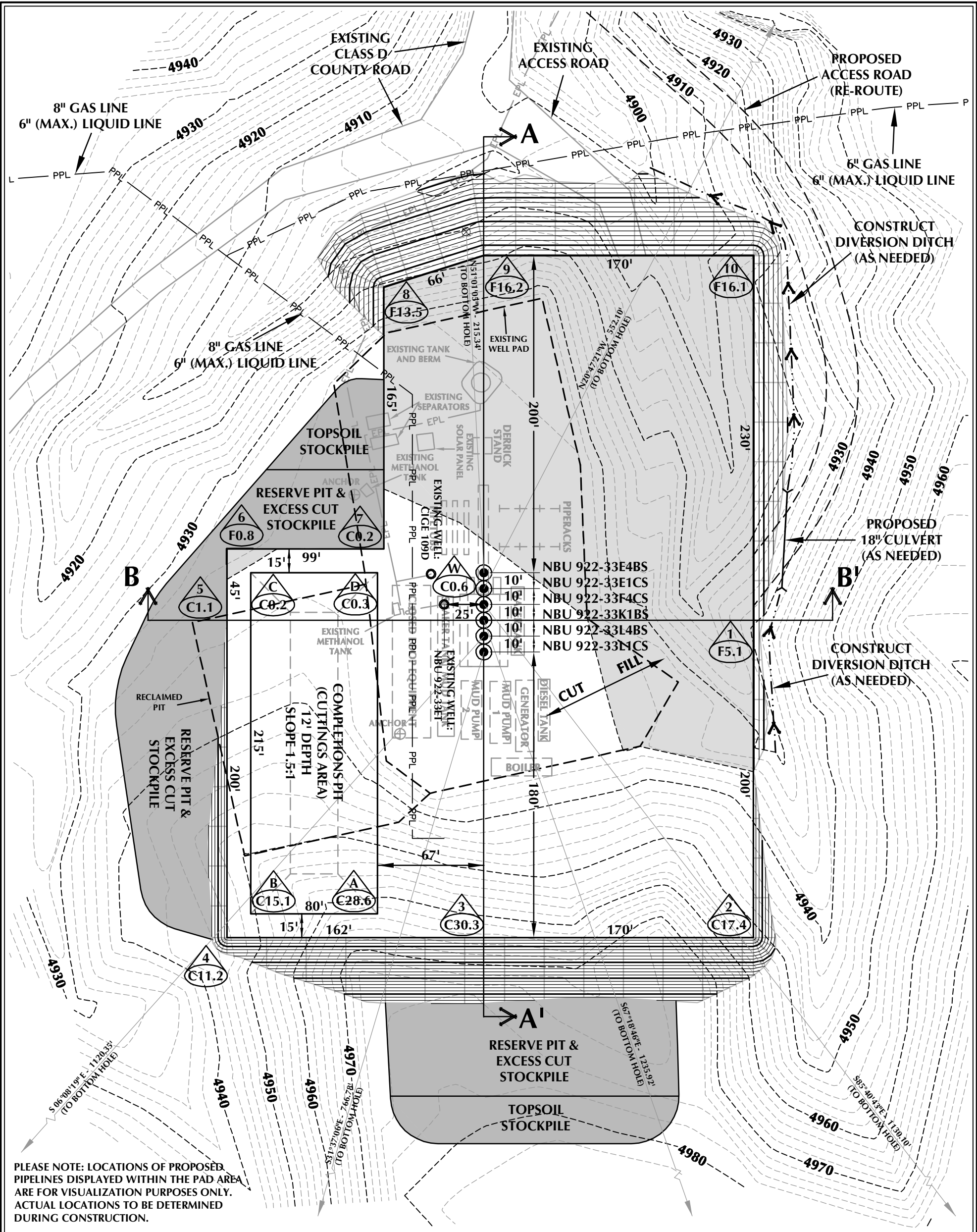


HORIZONTAL 0 30' 60' 1" = 60'  
2' CONTOURS

SCALE: 1"=60' DATE: 7/5/12 SHEET NO: 8  
REVISED: APF 8/23/12 8 OF 18

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078





PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 922-33E (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4935.0'  
FINISHED GRADE ELEVATION = 4934.4'  
CUT SLOPES = 1:1  
FILL SLOPES = 1.5:1  
TOTAL WELL PAD AREA = 3.58 ACRES  
TOTAL DISTURBANCE AREA = 4.40 ACRES  
SHRINKAGE FACTOR = 1.10  
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-33E

WELL PAD - LOCATION LAYOUT  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC  
2155 North Main Street  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 27,648 C.Y.  
TOTAL FILL FOR WELL PAD = 25,778 C.Y.  
TOPSOIL @ 6" DEPTH = 2,155 C.Y.  
EXCESS MATERIAL = 1,870 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT  
+/- 5,480 C.Y.  
COMPLETIONS PIT CAPACITY  
(2' OF FREEBOARD)  
+/- 20,530 BARRELS

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

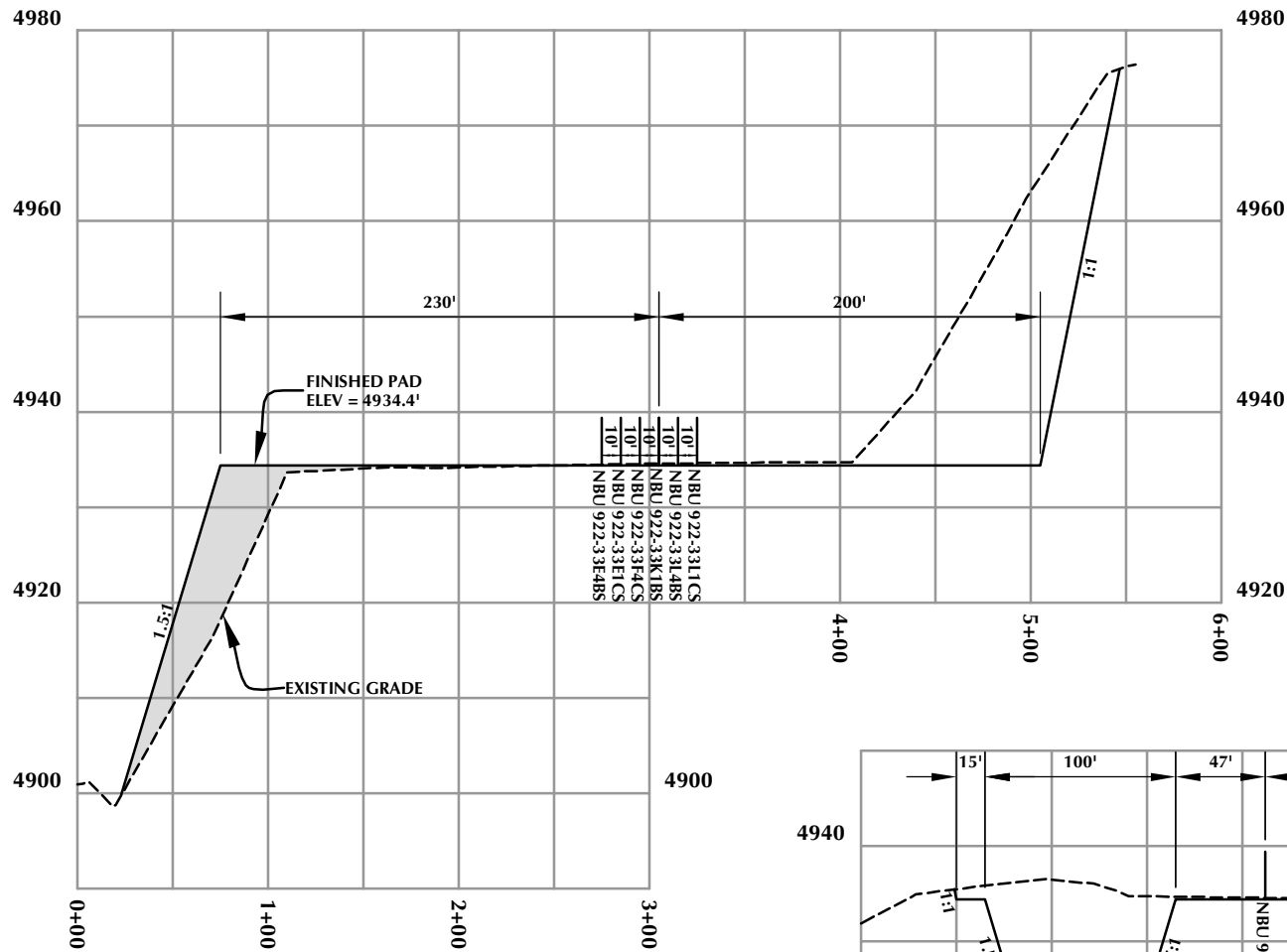
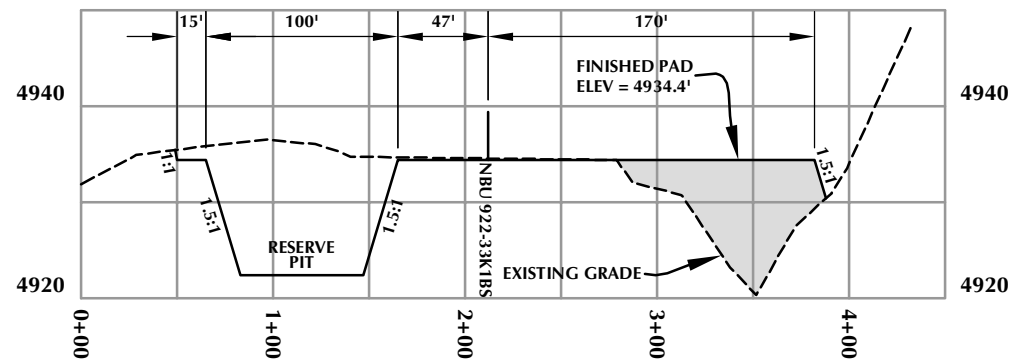


HORIZONTAL 0 30' 60' 1" = 60'  
2' CONTOURS

SCALE: 1"=60' DATE: 8/23/12 SHEET NO:

REVISED:

8B 8B OF 18

**CROSS SECTION A-A'****CROSS SECTION B-B'**

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - NBU 922-33E**

**WELL PAD - CROSS SECTIONS**  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UTAH COUNTY, UTAH



**CONSULTING, LLC**  
2155 North Main Street  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**  
**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

HORIZONTAL 0 50' 100' 1" = 100'  
VERTICAL 0 10' 20' 1" = 20'

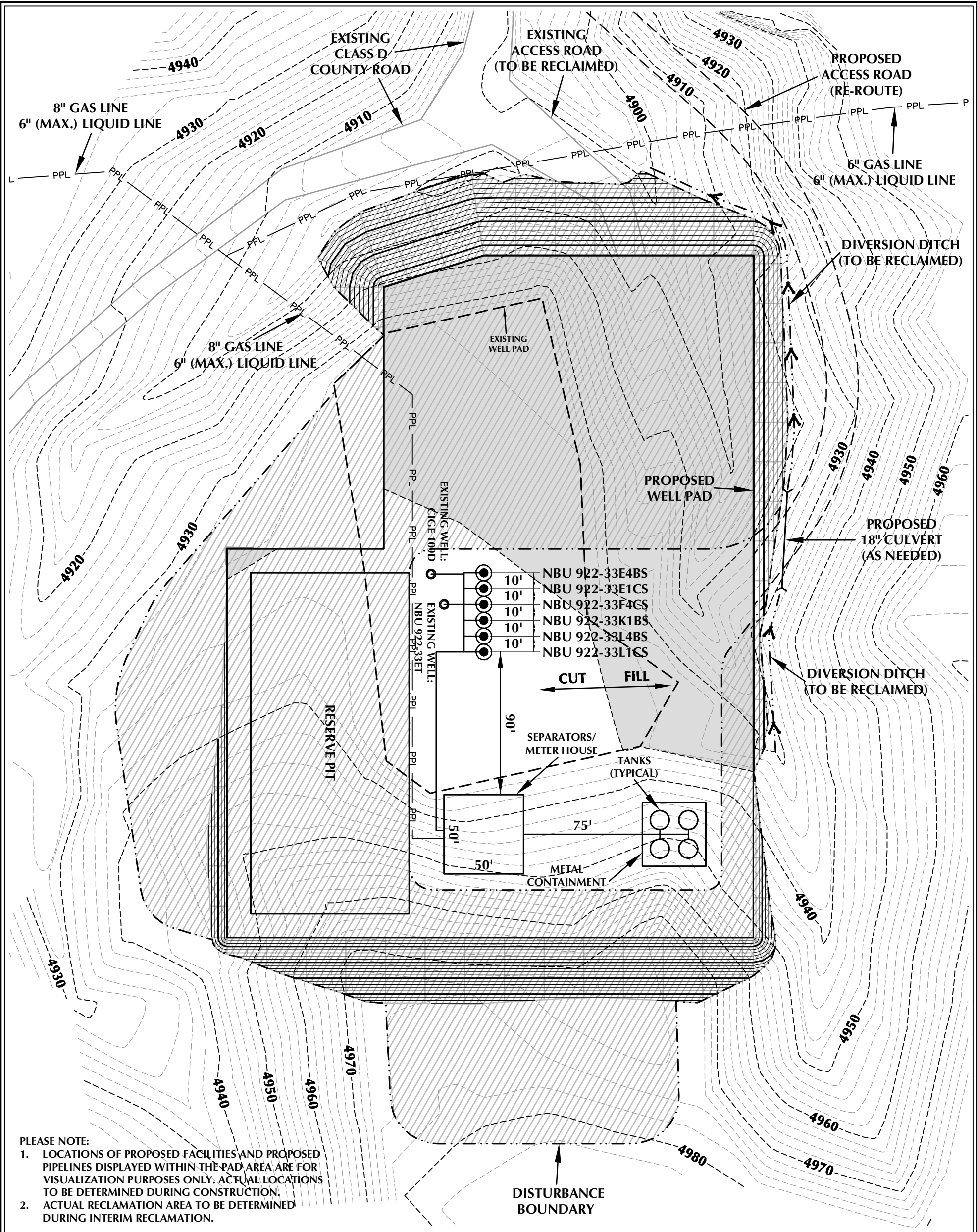
Scale: 1"=100'  
REVISED:

Date: 6/21/12

SHEET NO:

**9** 9 OF 18





WELL PAD - NBU 922-33E DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 4.41 ACRES (INCLUDING EXISTING)  
RECLAMATION AREA = 3.40 ACRES  
TOTAL WELL PAD AREA AFTER RECLAMATION = 1.01 ACRES

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-33E

WELL PAD - RECLAMATION LAYOUT  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH



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Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

TIMBERLINE  
ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE
- RECLAMATION AREA



HORIZONTAL 0 30' 60' 1" = 60'  
2' CONTOURS

SCALE: 1"=60' DATE: 7/5/12 SHEET NO:  
REVISED: APF 8/23/12 10 10 OF 18



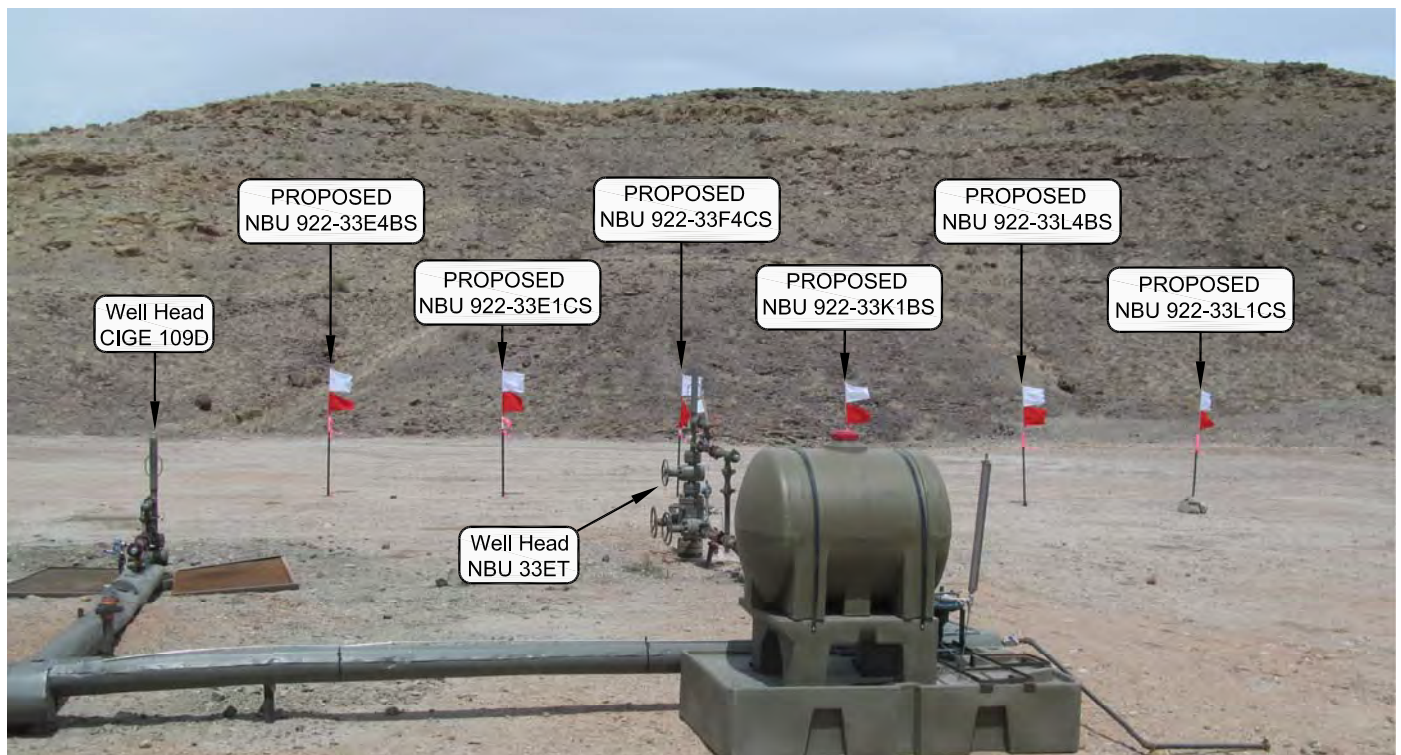


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: EASTERLY

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - NBU 922-33E**

**LOCATION PHOTOS**  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UTAH COUNTY, UTAH.



**CONSULTING, LLC**  
2155 North Main Street  
Sheridan WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**

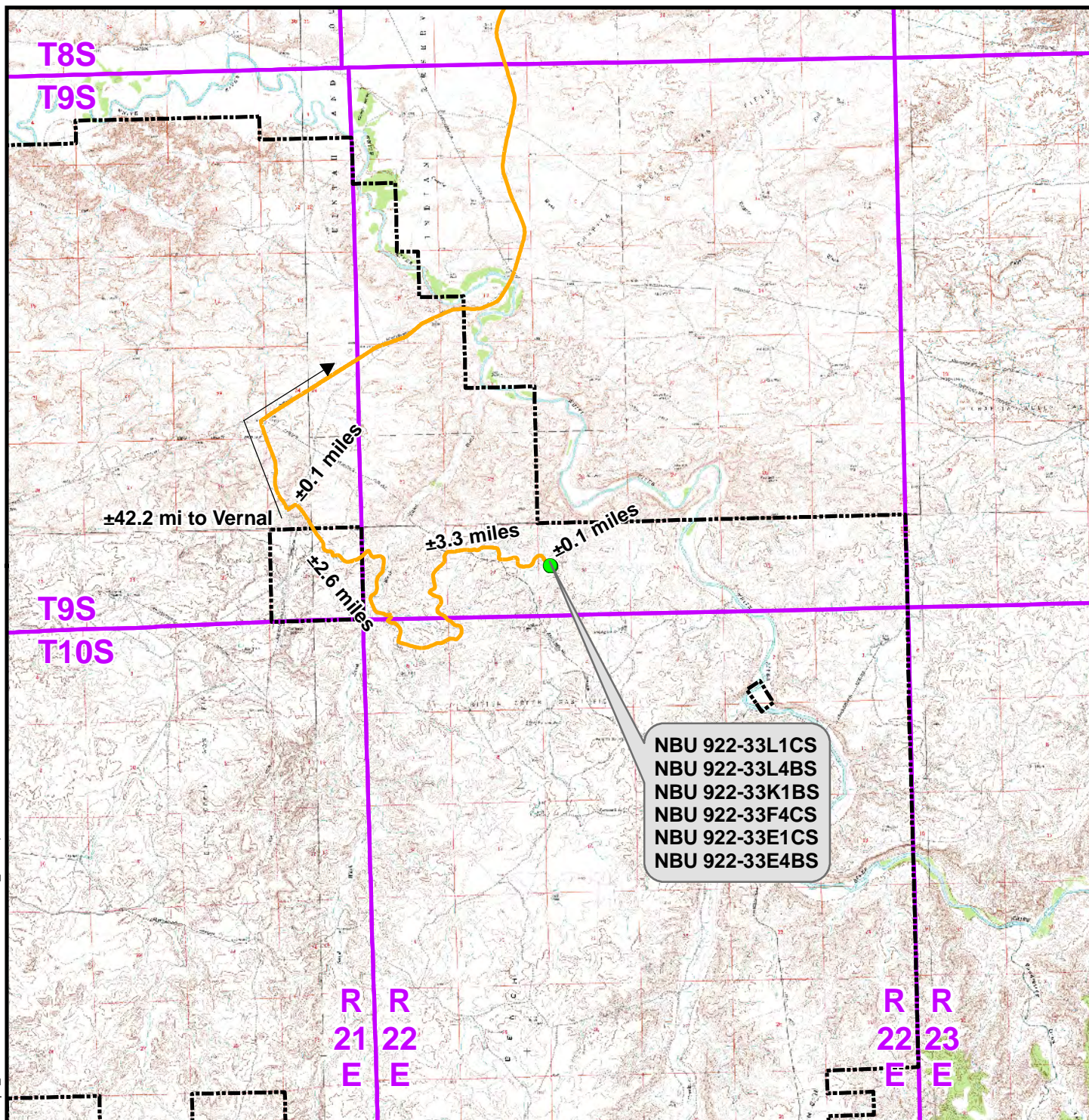
(435) 789-1365

**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 5-29-12	PHOTOS TAKEN BY: A.F.	SHEET NO: <b>11</b> 11 OF 18
DATE DRAWN: 6-12-12	DRAWN BY: C.T.C.	
Date Last Revised:		

RECEIVED: December 11, 2012



**Legend**

- Proposed Well Location      Natural Buttes Unit Boundary  
— Access Route - Proposed

Distance From Well Pad - NBU 922-33E To Unit Boundary: ±2,414ft

**WELL PAD - NBU 922-33E****TOPO A**

NBU 922-33L1CS, NBU 922-33L4BS,  
 NBU 922-33K1BS, NBU 922-33F4CS,  
 NBU 922-33E1CS & NBU 922-33E4BS  
 LOCATED IN SECTION 33, T9S, R22E,  
 S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &  
Gas Onshore L.P.**

1099 18th Street  
 Denver, Colorado 80202

**CONSULTING, LLC**

2155 North Main Street  
 Sheridan, Wyoming 82801  
 Phone 307-674-0609  
 Fax 307-674-0182



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

DATE: 24 Aug 2012

**12**

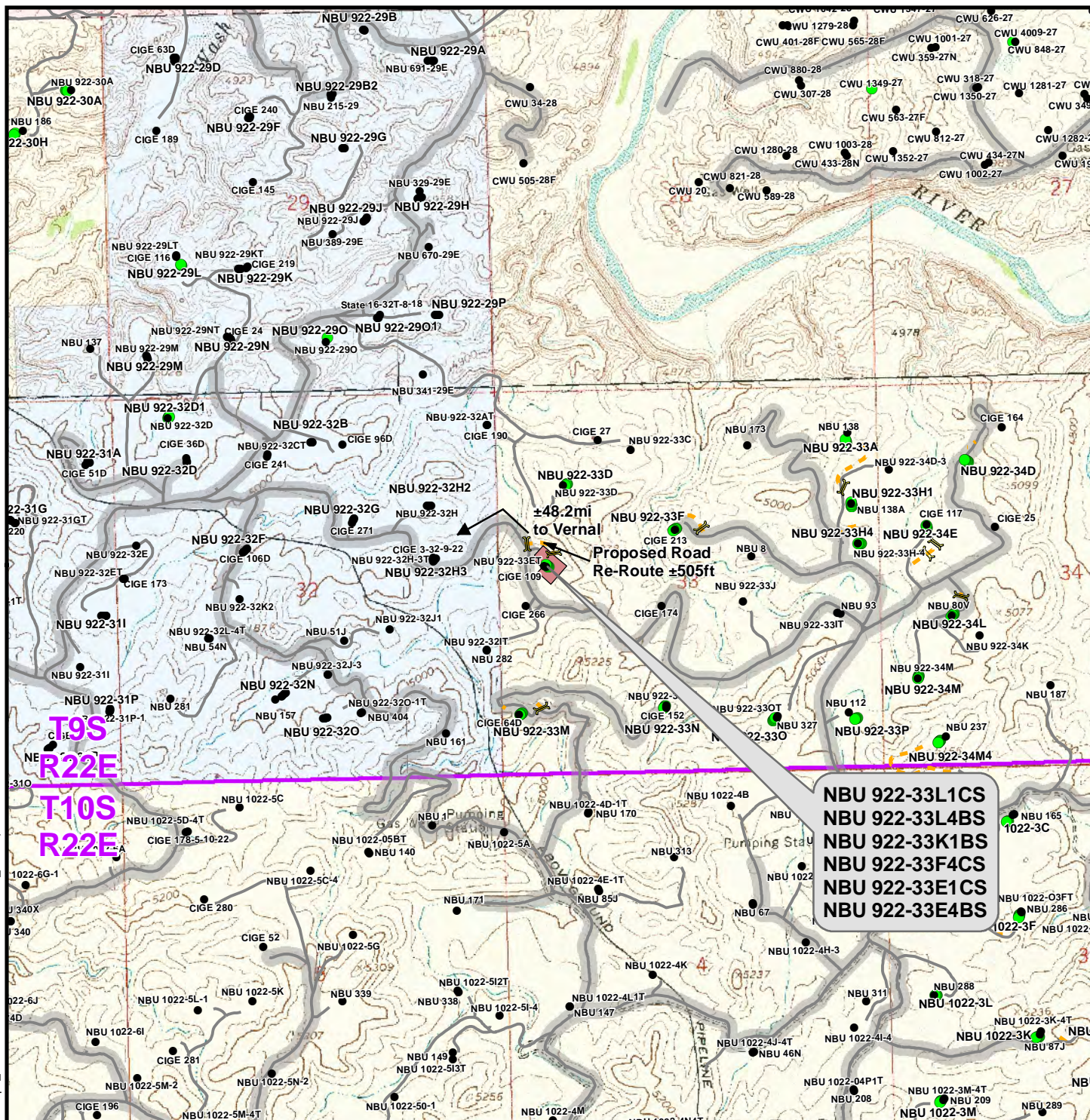
REVISED:

DATE:




12 OF 18

RECEIVED: December 11, 2012





Total Proposed Road Re-Route Length: ±505ft

-  Well - Proposed  
  Well Pad  
  Road - Proposed  
  County Road  
  Bureau of Land Management  
  State  
 Well - Existing  
 Road - Existing  
 Culvert/LWC - Proposed  
 Indian Reservation  
 Private

**Kerr-McGee Oil &  
Gas Onshore L.P.**

**TOPO B**  
**NBU 922-33L1CS, NBU 922-33L4BS,**  
**NBU 922-33K1BS, NBU 922-33F4CS,**  
**NBU 922-33E1CS & NBU 922-33E4BS**  
**LOCATED IN SECTION 33, T9S, R22E,**  
**S.L.B.&M., UINTAH COUNTY, UTAH**

**1099 18th Street  
Denver, Colorado 80202**



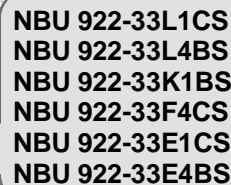
2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SHEET NO:

13

13 OF 18





Proposed Well	Nearest Well Bore	Footage
NBU 922-33L1CS	CIGE 266	743ft
NBU 922-33L4BS	CIGE 266	725ft
NBU 922-33K1BS	CIGE 174	434ft
NBU 922-33F4CS	CIGE 174	676ft
NBU 922-33E1CS	CIGE 109	560ft
NBU 922-33E4BS	CIGE 109	217ft

Well - Proposed     Well Path     Producing     Deferred     Active Injector     Plugged & Abandoned  
 Bottom Hole - Proposed     Well Pad     Spudded     Cancelled     Location Abandoned     Shut-In  
 Bottom Hole - Existing     Well - 1 Mile Radius     APD Approved     Temporarily Abandoned  
 Preliminary Location

**TOPO C**  
**NBU 922-33L1CS, NBU 922-33L4BS,**  
**NBU 922-33K1BS, NBU 922-33F4CS,**  
**NBU 922-33E1CS & NBU 922-33E4BS**  
**LOCATED IN SECTION 33, T9S, R22E,**  
**S.L.B.&M., UINTAH COUNTY, UTAH**

**1099 18th Street  
Denver, Colorado 80202**

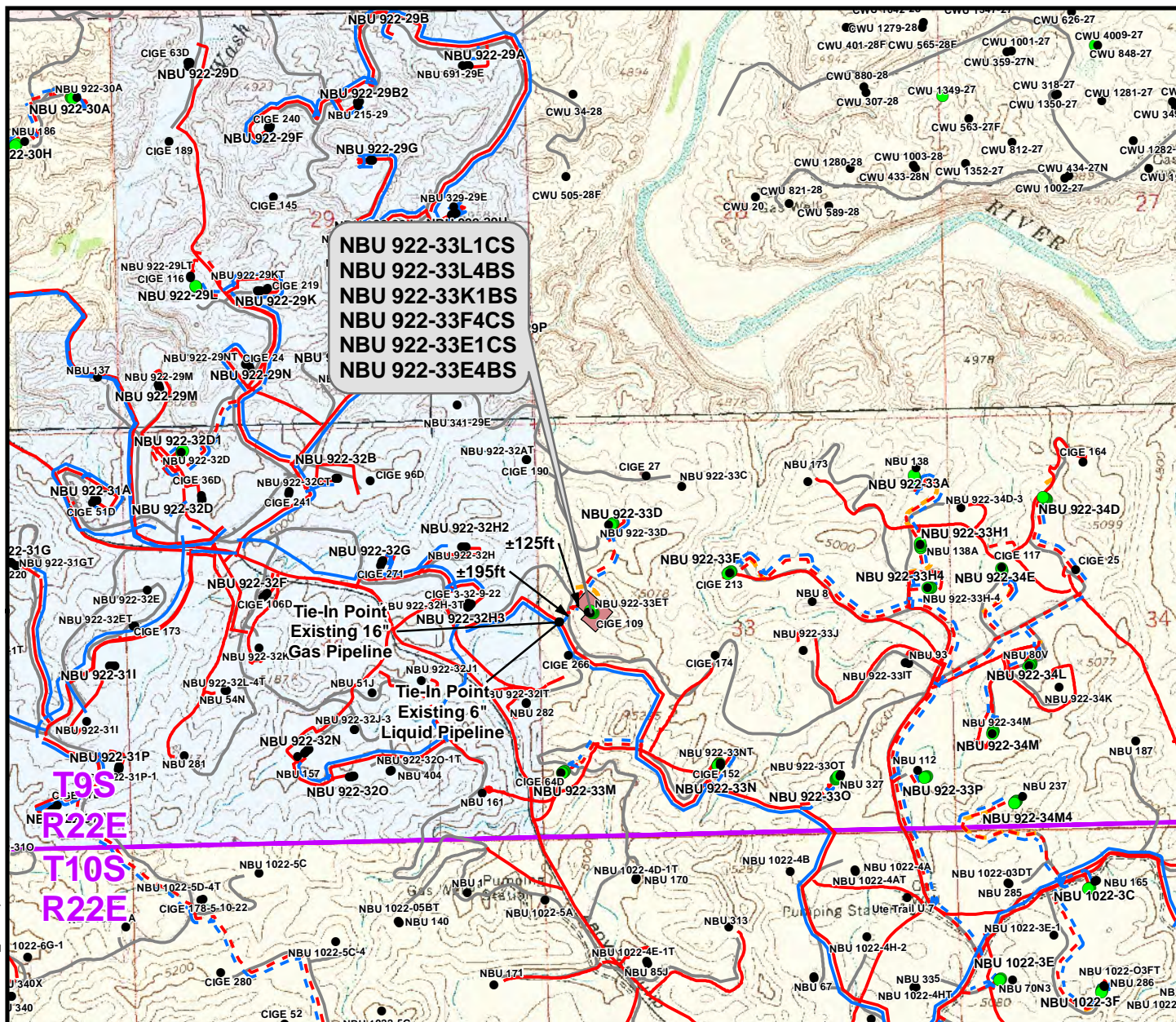


**SHEET NO:**

14

14 OF 18





Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±325ft
Buried 6" (Max.) (Edge of Pad to 33D Intersection)	±125ft
Buried 6" (Max.) (33D Intersection to Existing 6" Liquid Pipeline)	±195ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±645ft</b>

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±325ft
Buried 8" (Edge of Pad to 33D Intersection)	±125ft
Buried 8" (33D Intersection to Existing 16" Gas Pipeline)	±195ft
<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±645ft</b>

### Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management	■ State
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	■ Indian Reservation	■ Private
■ Well Pad	- - - Gas Pipeline - Existing				

### WELL PAD - NBU 922-33E

TOPO D  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &  
Gas Onshore L.P.**

1099 18th Street  
Denver, Colorado 80202



**CONSULTING, LLC**

2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 24 Aug 2012

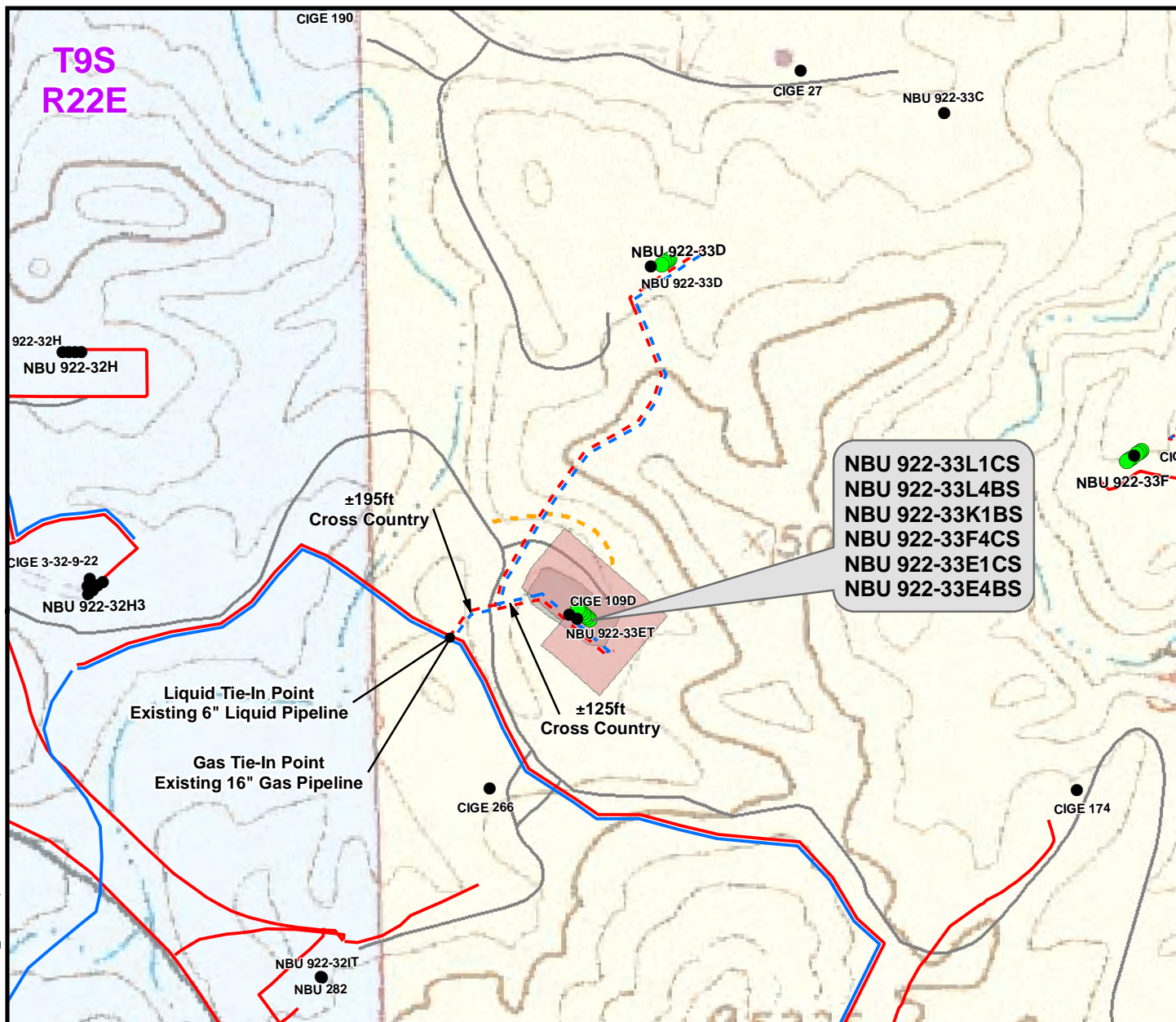
DATE:

SHEET NO:

**15**

15 OF 18





Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Separator to Edge of Pad)	±325ft
Buried 6"(Max.) (Edge of Pad to 33D Intersection)	±125ft
Buried 6"(Max.) (33D Intersection to Existing 6" Liquid Pipeline)	±195ft
<b>TOTAL PROPOSED BURIED LIQUID PIPELINE =</b>	<b>±645ft</b>

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±325ft
Buried 8" (Edge of Pad to 33D Intersection)	±125ft
Buried 8" (33D Intersection to Existing 16" Gas Pipeline)	±195ft
<b>TOTAL PROPOSED BURIED GAS PIPELINE =</b>	<b>±645ft</b>

### Legend

● Well - Proposed	■ Well Pad - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management
● Well - Existing	■ Well Pad - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - Existing	- - - Road - Existing	■ Indian Reservation
		- - - Gas Pipeline - Existing			■ State
					■ Private

### WELL PAD - NBU 922-33E

TOPO D2 (PAD & PIPELINE DETAIL)  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &  
Gas Onshore L.P.**

1099 18th Street  
Denver, Colorado 80202



**CONSULTING, LLC**

2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 500ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 24 Aug 2012

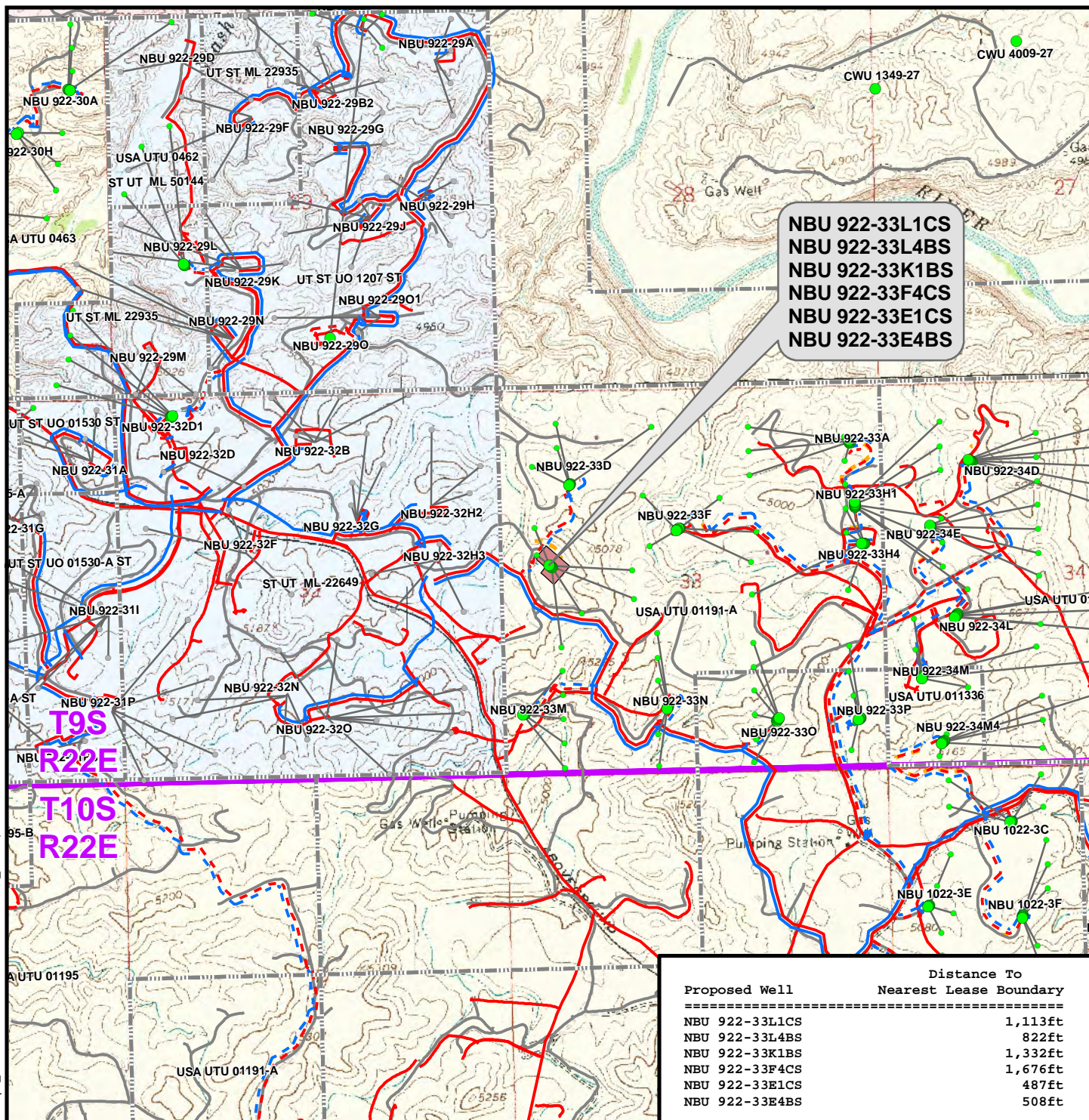
DATE:

SHEET NO:

**16**

16 OF 18





Proposed Well	Distance To Nearest Lease Boundary
NBU 922-33L1CS	1,113ft
NBU 922-33L4BS	822ft
NBU 922-33K1BS	1,332ft
NBU 922-33F4CS	1,676ft
NBU 922-33E1CS	487ft
NBU 922-33E4BS	508ft

## Legend

Well - Proposed	Well Pad	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
Bottom Hole - Proposed	Lease Boundary	Gas Pipeline - To Be Upgraded	Liquid Pipeline - Existing	Road - Existing	Indian Reservation
Bottom Hole - Existing		Gas Pipeline - Existing			State
Well Path					Private

## WELL PAD - NBU 922-33E

TOPO E  
NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
LOCATED IN SECTION 33, T9S, R22E,  
S.L.B.&M., UINTAH COUNTY, UTAH

**Kerr-McGee Oil &  
Gas Onshore L.P.**

1099 18th Street  
Denver, Colorado 80202



**CONSULTING, LLC**

2155 North Main Street  
Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 24 Aug 2012

DATE:

SHEET NO:

**17**

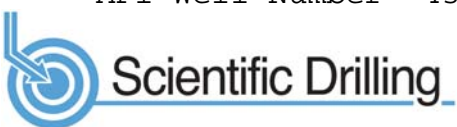
17 OF 18



**Kerr-McGee Oil & Gas Onshore, LP  
WELL PAD – NBU 922-33E  
WELLS – NBU 922-33L1CS, NBU 922-33L4BS,  
NBU 922-33K1BS, NBU 922-33F4CS,  
NBU 922-33E1CS & NBU 922-33E4BS  
Section 33, T9S, R22E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northerly, then southeasterly direction along the third Class D County Road approximately 3.3 miles to the proposed access road to the east. Follow the road flags in an easterly, then southeasterly direction approximately 505 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 48.3 miles in a southerly direction.



WELL DETAILS: NBU 922-33L4BS							
GL 4934 & KB 4 @ 4938.00ft (ASSUMED)							
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
	0.00	0.00	14527311.11	2074217.86	39.993129	-109.451221	
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SEGO	9032.00	-1113.76	119.63	14526199.59	2074356.82	39.990071	-109.450794
- plan hits target center							
PBHL	10124.00	-1113.76	119.63	14526199.59	2074356.82	39.990071	-109.450794
- plan hits target center							
Shape: Circle (Radius: 25.00)							
Circle (Radius: 100.00)							

T

M

Azimuths to True North

Magnetic North: 10.87°

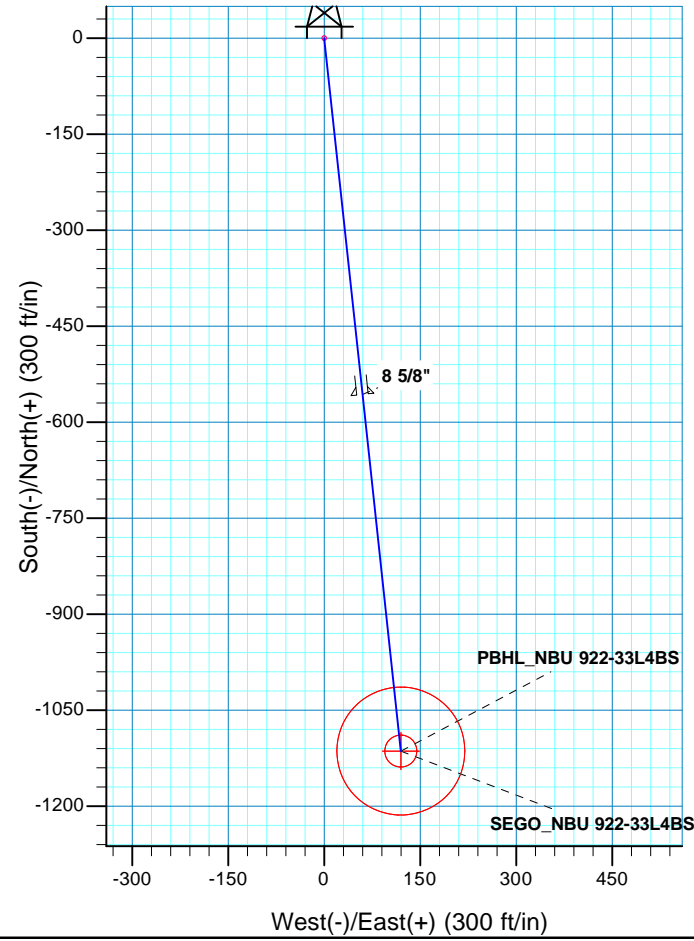
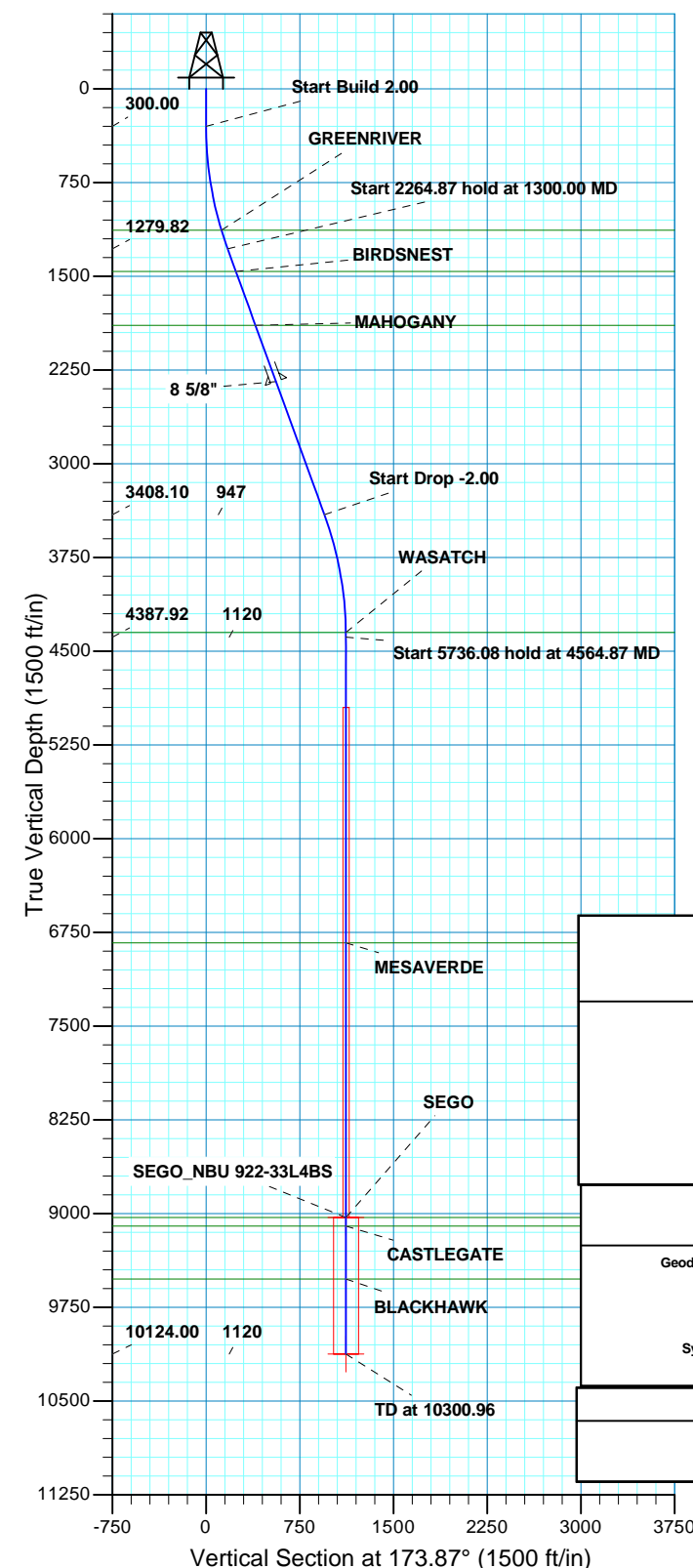
Magnetic Field

Strength: 52193.3snT

Dip Angle: 65.84°

Date: 11/07/2012

Model: IGRF2010



SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	173.87	1279.82	-171.78	18.45	2.00	173.87	172.77	
3564.87	20.00	173.87	3408.10	-941.98	101.18	0.00	0.00	947.40	
4564.87	0.00	0.00	4387.92	-1113.76	119.63	2.00	180.00	1120.17	
10300.96	0.00	0.00	10124.00	-1113.76	119.63	0.00	0.00	1120.17	PBHL_NBU 922-33L4BS

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
1132.00	1144.16	GREENRIVER	
1462.00	1493.88	BIRDSNEST	
1893.00	1952.54	MAHOGANY	
4350.00	4526.96	WASATCH	
6834.00	7010.96	MESAVERDE	
9032.00	9208.96	SEGO	
9101.00	9277.96	CASTLEGATE	
9524.00	9700.96	BLACKHAWK	

CASING DETAILS			
TVD	MD	Name	Size
2343.00	2431.42	8 5/8"	8.625

0003750

h)

RECEIVED:

Plan: PLAN #1 PRELIMINARY (NBU 922-33L4BS/OH)

Created By: RobertScott    Date: 8:31, November 08 2012

RECEIVED:



# Scientific Drilling

## **US ROCKIES REGION PLANNING**

**UTAH - UTM (feet), NAD27, Zone 12N**

**NBU 922-33E PAD**

**NBU 922-33L4BS**

**OH**

**Plan: PLAN #1 PRELIMINARY**

## **Standard Planning Report**

**08 November, 2012**





<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-33L4BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Site:</b>	NBU 922-33E PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-33L4BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	NBU 922-33E PAD, SECTION 33 T9S R22E			
<b>Site Position:</b>		<b>Northing:</b>	14,527,330.75 usft	<b>Latitude:</b> 39.993184
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,074,195.38 usft	<b>Longitude:</b> -109.451300
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> 1.00 °

<b>Well</b>	NBU 922-33L4BS, 2440 FNL 705 FWL			
<b>Well Position</b>	<b>+N/-S</b>	-20.02 ft	<b>Northing:</b>	14,527,311.11 usft
	<b>+E/-W</b>	22.13 ft	<b>Easting:</b>	2,074,217.86 usft
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 4,934.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/07/12	10.87	65.84	52,193

<b>Design</b>	PLAN #1 PRELIMINARY			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	173.87

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	173.87	1,279.82	-171.78	18.45	2.00	2.00	0.00	173.87	
3,564.87	20.00	173.87	3,408.10	-941.98	101.18	0.00	0.00	0.00	0.00	
4,564.87	0.00	0.00	4,387.92	-1,113.76	119.63	2.00	-2.00	0.00	180.00	
10,300.96	0.00	0.00	10,124.00	-1,113.76	119.63	0.00	0.00	0.00	0.00	PBHL_NBU 922-33L4



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-33L4BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Site:</b>	NBU 922-33E PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-33L4BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
400.00	2.00	173.87	399.98	-1.74	0.19	1.75	2.00	2.00	0.00
500.00	4.00	173.87	499.84	-6.94	0.75	6.98	2.00	2.00	0.00
600.00	6.00	173.87	599.45	-15.60	1.68	15.69	2.00	2.00	0.00
700.00	8.00	173.87	698.70	-27.72	2.98	27.88	2.00	2.00	0.00
800.00	10.00	173.87	797.47	-43.27	4.65	43.52	2.00	2.00	0.00
900.00	12.00	173.87	895.62	-62.24	6.69	62.60	2.00	2.00	0.00
1,000.00	14.00	173.87	993.06	-84.61	9.09	85.10	2.00	2.00	0.00
1,100.00	16.00	173.87	1,089.64	-110.34	11.85	110.98	2.00	2.00	0.00
1,144.16	16.88	173.87	1,132.00	-122.77	13.19	123.48	2.00	2.00	0.00
<b>GREENRIVER</b>									
1,200.00	18.00	173.87	1,185.27	-139.41	14.97	140.21	2.00	2.00	0.00
1,300.00	20.00	173.87	1,279.82	-171.78	18.45	172.77	2.00	2.00	0.00
<b>Start 2264.87 hold at 1300.00 MD</b>									
1,400.00	20.00	173.87	1,373.78	-205.79	22.10	206.97	0.00	0.00	0.00
1,493.88	20.00	173.87	1,462.00	-237.71	25.53	239.08	0.00	0.00	0.00
<b>BIRDSNEST</b>									
1,500.00	20.00	173.87	1,467.75	-239.79	25.76	241.17	0.00	0.00	0.00
1,600.00	20.00	173.87	1,561.72	-273.80	29.41	275.37	0.00	0.00	0.00
1,700.00	20.00	173.87	1,655.69	-307.81	33.06	309.58	0.00	0.00	0.00
1,800.00	20.00	173.87	1,749.66	-341.81	36.71	343.78	0.00	0.00	0.00
1,900.00	20.00	173.87	1,843.63	-375.82	40.37	377.98	0.00	0.00	0.00
1,952.54	20.00	173.87	1,893.00	-393.68	42.28	395.95	0.00	0.00	0.00
<b>MAHOGANY</b>									
2,000.00	20.00	173.87	1,937.60	-409.82	44.02	412.18	0.00	0.00	0.00
2,100.00	20.00	173.87	2,031.57	-443.83	47.67	446.38	0.00	0.00	0.00
2,200.00	20.00	173.87	2,125.54	-477.84	51.32	480.59	0.00	0.00	0.00
2,300.00	20.00	173.87	2,219.51	-511.84	54.98	514.79	0.00	0.00	0.00
2,400.00	20.00	173.87	2,313.48	-545.85	58.63	548.99	0.00	0.00	0.00
2,431.42	20.00	173.87	2,343.00	-556.53	59.78	559.74	0.00	0.00	0.00
<b>8 5/8"</b>									
2,500.00	20.00	173.87	2,407.45	-579.86	62.28	583.19	0.00	0.00	0.00
2,600.00	20.00	173.87	2,501.42	-613.86	65.93	617.39	0.00	0.00	0.00
2,700.00	20.00	173.87	2,595.39	-647.87	69.59	651.60	0.00	0.00	0.00
2,800.00	20.00	173.87	2,689.35	-681.88	73.24	685.80	0.00	0.00	0.00
2,900.00	20.00	173.87	2,783.32	-715.88	76.89	720.00	0.00	0.00	0.00
3,000.00	20.00	173.87	2,877.29	-749.89	80.54	754.20	0.00	0.00	0.00
3,100.00	20.00	173.87	2,971.26	-783.90	84.20	788.40	0.00	0.00	0.00
3,200.00	20.00	173.87	3,065.23	-817.90	87.85	822.61	0.00	0.00	0.00
3,300.00	20.00	173.87	3,159.20	-851.91	91.50	856.81	0.00	0.00	0.00
3,400.00	20.00	173.87	3,253.17	-885.91	95.15	891.01	0.00	0.00	0.00
3,500.00	20.00	173.87	3,347.14	-919.92	98.81	925.21	0.00	0.00	0.00
3,564.87	20.00	173.87	3,408.10	-941.98	101.18	947.40	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
3,600.00	19.30	173.87	3,441.18	-953.73	102.44	959.21	2.00	-2.00	0.00
3,700.00	17.30	173.87	3,536.12	-984.94	105.79	990.61	2.00	-2.00	0.00
3,800.00	15.30	173.87	3,632.10	-1,012.84	108.79	1,018.67	2.00	-2.00	0.00
3,900.00	13.30	173.87	3,729.00	-1,037.39	111.42	1,043.36	2.00	-2.00	0.00
4,000.00	11.30	173.87	3,826.70	-1,058.57	113.70	1,064.66	2.00	-2.00	0.00



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-33L4BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Site:</b>	NBU 922-33E PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-33L4BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.00	9.30	173.87	3,925.08	-1,076.34	115.61	1,082.53	2.00	-2.00	0.00
4,200.00	7.30	173.87	4,024.03	-1,090.69	117.15	1,096.96	2.00	-2.00	0.00
4,300.00	5.30	173.87	4,123.42	-1,101.60	118.32	1,107.93	2.00	-2.00	0.00
4,400.00	3.30	173.87	4,223.13	-1,109.05	119.12	1,115.42	2.00	-2.00	0.00
4,500.00	1.30	173.87	4,323.05	-1,113.03	119.55	1,119.43	2.00	-2.00	0.00
4,526.96	0.76	173.87	4,350.00	-1,113.51	119.60	1,119.92	2.00	-2.00	0.00
<b>WASATCH</b>									
4,564.87	0.00	0.00	4,387.92	-1,113.76	119.63	1,120.17	2.00	-2.00	0.00
<b>Start 5736.08 hold at 4564.87 MD</b>									
4,600.00	0.00	0.00	4,423.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
4,700.00	0.00	0.00	4,523.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
4,800.00	0.00	0.00	4,623.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
4,900.00	0.00	0.00	4,723.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,000.00	0.00	0.00	4,823.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,100.00	0.00	0.00	4,923.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,200.00	0.00	0.00	5,023.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,300.00	0.00	0.00	5,123.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,400.00	0.00	0.00	5,223.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,500.00	0.00	0.00	5,323.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,600.00	0.00	0.00	5,423.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,700.00	0.00	0.00	5,523.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,800.00	0.00	0.00	5,623.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
5,900.00	0.00	0.00	5,723.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,000.00	0.00	0.00	5,823.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,100.00	0.00	0.00	5,923.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,200.00	0.00	0.00	6,023.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,300.00	0.00	0.00	6,123.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,400.00	0.00	0.00	6,223.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,500.00	0.00	0.00	6,323.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,600.00	0.00	0.00	6,423.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,700.00	0.00	0.00	6,523.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,800.00	0.00	0.00	6,623.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
6,900.00	0.00	0.00	6,723.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,000.00	0.00	0.00	6,823.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,010.96	0.00	0.00	6,834.00	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
<b>MESAVERDE</b>									
7,100.00	0.00	0.00	6,923.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,200.00	0.00	0.00	7,023.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,300.00	0.00	0.00	7,123.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,400.00	0.00	0.00	7,223.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,500.00	0.00	0.00	7,323.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,600.00	0.00	0.00	7,423.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,700.00	0.00	0.00	7,523.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,800.00	0.00	0.00	7,623.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
7,900.00	0.00	0.00	7,723.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,000.00	0.00	0.00	7,823.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,100.00	0.00	0.00	7,923.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,200.00	0.00	0.00	8,023.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,300.00	0.00	0.00	8,123.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,400.00	0.00	0.00	8,223.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,500.00	0.00	0.00	8,323.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,600.00	0.00	0.00	8,423.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00
8,700.00	0.00	0.00	8,523.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00



<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well NBU 922-33L4BS
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>MD Reference:</b>	GL 4934 & KB 4 @ 4938.00ft (ASSUMED)
<b>Site:</b>	NBU 922-33E PAD	<b>North Reference:</b>	True
<b>Well:</b>	NBU 922-33L4BS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,800.00	0.00	0.00	8,623.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,723.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,823.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,923.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,023.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,208.96	0.00	0.00	9,032.00	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
SEGO - SEGO_NBU 922-33L4BS										
9,277.96	0.00	0.00	9,101.00	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
CASTLEGATE										
9,300.00	0.00	0.00	9,123.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,223.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,323.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,423.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,523.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,700.96	0.00	0.00	9,524.00	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
BLACKHAWK										
9,800.00	0.00	0.00	9,623.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,723.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,823.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
10,100.00	0.00	0.00	9,923.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,023.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
10,300.00	0.00	0.00	10,123.04	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
10,300.96	0.00	0.00	10,124.00	-1,113.76	119.63	1,120.17	0.00	0.00	0.00	
TD at 10300.96 - PBHL_NBU 922-33L4BS										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SEGO_NBU 922-33L4B	0.00	0.00	9,032.00	-1,113.76	119.63	14,526,199.60	2,074,356.82	39.990071	-109.450794
- plan hits target center									
- Circle (radius 25.00)									
PBHL_NBU 922-33L4BS	0.00	0.00	10,124.00	-1,113.76	119.63	14,526,199.60	2,074,356.82	39.990071	-109.450794
- plan hits target center									
- Circle (radius 100.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)
2,431.42	2,343.00	8 5/8"		8.625	11.000



**Database:** EDM5000-RobertS-Local  
**Company:** US ROCKIES REGION PLANNING  
**Project:** UTAH - UTM (feet), NAD27, Zone 12N  
**Site:** NBU 922-33E PAD  
**Well:** NBU 922-33L4BS  
**Wellbore:** OH  
**Design:** PLAN #1 PRELIMINARY

**Local Co-ordinate Reference:** Well NBU 922-33L4BS  
**TVD Reference:** GL 4934 & KB 4 @ 4938.00ft (ASSUMED)  
**MD Reference:** GL 4934 & KB 4 @ 4938.00ft (ASSUMED)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,144.16	1,132.00	GREENRIVER			
1,493.88	1,462.00	BIRDSNEST			
1,952.54	1,893.00	MAHOGANY			
4,526.96	4,350.00	WASATCH			
7,010.96	6,834.00	MESAVERDE			
9,208.96	9,032.00	SEGO			
9,277.96	9,101.00	CASTLEGATE			
9,700.96	9,524.00	BLACKHAWK			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-171.78	18.45	Start 2264.87 hold at 1300.00 MD
3,564.87	3,408.10	-941.98	101.18	Start Drop -2.00
4,564.87	4,387.92	-1,113.76	119.63	Start 5736.08 hold at 4564.87 MD
10,300.96	10,124.00	-1,113.76	119.63	TD at 10300.96



NBU 922-33E1CS/ 922-33E4BS/ 922-33F4CS  
 NBU 922-33K1BS/ 922-33L1CS/ 922-33L4BS  
 Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations  
 1 of 5

## Kerr-McGee Oil & Gas Onshore. L.P.

### NBU 922-33E PAD

<u>API #</u>	<u>NBU 922-33E1CS</u>		
	Surface: 2420 FNL / 683 FWL	SWNW	Lot
	BHL: 1904 FNL / 487 FWL	SWNW	Lot
<u>API #</u>	<u>NBU 922-33E4BS</u>		
	Surface: 2414 FNL / 675 FWL	SWNW	Lot
	BHL: 2278 FNL / 508 FWL	SWNW	Lot
<u>API #</u>	<u>NBU 922-33F4CS</u>		
	Surface: 2427 FNL / 690 FWL	SWNW	Lot
	BHL: 2513 FNL / 1817 FWL	SENW	Lot
<u>API #</u>	<u>NBU 922-33K1BS</u>		
	Surface: 2434 FNL / 698 FWL	SWNW	Lot
	BHL: 2383 FSL / 1837 FWL	NESW	Lot
<u>API #</u>	<u>NBU 922-33L1CS</u>		
	Surface: 2447 FNL / 713 FWL	SWNW	Lot
	BHL: 2194 FSL / 1113 FWL	NWSW	Lot
<u>API #</u>	<u>NBU 922-33L4BS</u>		
	Surface: 2440 FNL / 705 FWL	SWNW	Lot
	BHL: 1740 FSL / 822 FWL	NWSW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett - BLM;
- Jessi Brunson - USFWS;
- Bill Knapp - ICF Consulting;
- Jacob Dunham - 609 Consulting;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

#### A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

NBU 922-33E1CS/ 922-33E4BS/ 922-33F4CS  
NBU 922-33K1BS/ 922-33L1CS/ 922-33L4BS  
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations  
2 of 5

**B. New or Reconstructed Access Roads:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

**The following segments are "on-lease"**

±505' (0.1 miles) – Section 33 T9S R22E (SW/4 NW/4) – On-lease UTU-01191-A, road re-route from the edge of the pad to the existing road to the west. Please refer to Topo B.

**C. Location of Existing Wells:**

Please refer to Topo C for existing wells.

**D. Location of Existing and/or Proposed Facilities:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office.

This pad will expand the existing pad for the NBU 922-33ET and the CIGE 109D, which are producing gas wells according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 1, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

**GAS GATHERING**

*Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.*

The total gas gathering pipeline distance from the meter to the tie in point is ±645' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±325' (0.06 miles) – Section 33 T9S R22E (SW/4 NW/4) – On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±320' (0.06 miles) – Section 33 T9S R22E (SW/4 NW/4) – On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to tie-in to the existing 16" gas pipeline to the south. This pipeline will be used concurrently with the NBU 922-33D Pad. Please refer to Exhibit A Gas Gathering- Line 15 and 14.

**LIQUID GATHERING**

*Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.*

The total liquid gathering pipeline distance from the separator to the tie in point is ±645' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±325' (0.06 miles) – Section 33 T9S R22E (SW/4 NW/4) – On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
- ±320' (0.06 miles) – Section 33 T9S R22E (SW/4 NW/4) – On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the existing 6" liquid pipeline to tie-in to

NBU 922-33E1CS/ 922-33E4BS/ 922-33F4CS  
NBU 922-33K1BS/ 922-33L1CS/ 922-33L4BS  
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations  
3 of 5

the South. This pipeline will be used concurrently with the NBU 922-33D Pad. Please refer to Exhibit B Liquid Gathering- Line 15 and 14.

### **Pipeline Gathering Construction**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **The Anadarko Completions Transportation System (ACTS) information:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

#### **E. Location and Types of Water Supply:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **F. Construction Materials:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **G. Methods for Handling Waste:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Materials Management**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **H. Ancillary Facilities:**

No additional ancillary facilities are planned for this location.

#### **I. Well Site Layout:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **J. Plans for Surface Reclamation:**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Interim Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

#### **Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33E1CS/ 922-33E4BS/ 922-33F4CS  
NBU 922-33K1BS/ 922-33L1CS/ 922-33L4BS  
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations  
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### **Measures Common to Interim and Final Reclamation**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

### **Weed Control**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

### **Monitoring**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

## **K. Surface/Mineral Ownership:**

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

## **L. Other Information:**

### **Cultural and Paleontological Resources**

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

### **Resource Reports:**

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on August 28, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-177.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-834 and 841.

### **Proposed Action Annual Emissions Tables:**

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33E1CS/ 922-33E4BS/ 922-33F4CS  
NBU 922-33K1BS/ 922-33L1CS/ 922-33L4BS  
Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations  
5 of 5

**M. Lessee's or Operators' Representative & Certification:**

Gina T. Becker  
Senior Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6086

Tommy Thompson  
General Manager, Drilling  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

  
Gina T. Becker

November 5, 2012  
Date

Location Map

UTAH

BOX ELDER

CACHE

BECH

WEBER

DAVIS

FORDE

SUMMIT

DADESBET

GULT LAKE

TOOELE

UTAH

SATCH

DUCHESNE

UINTAH

JUAB

CARBON

MILLARD

SANPETE

EMERY

GRAND

BEAVER

PIUTE

WAYNE

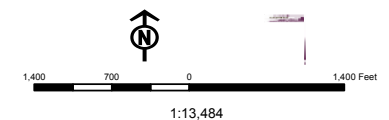
IRON

GARFIELD

SAN JUAN

WASHINGTON

KANE



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

December 20, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
<b>NBU 922-33E PAD</b>		
43-047-53386	NBU 922-33L4BS	Sec 33 T09S R22E 2440 FNL 0705 FWL
	BHL	Sec 33 T09S R22E 1740 FSL 0822 FWL
43-047-53391	NBU 922-33L1CS	Sec 33 T09S R22E 2447 FNL 0713 FWL
	BHL	Sec 33 T09S R22E 2194 FSL 1113 FWL
43-047-53397	NBU 922-33K1BS	Sec 33 T09S R22E 2434 FNL 0698 FWL
	BHL	Sec 33 T09S R22E 2383 FSL 1837 FWL
43-047-53398	NBU 922-33F4CS	Sec 33 T09S R22E 2427 FNL 0690 FWL
	BHL	Sec 33 T09S R22E 2513 FNL 1817 FWL
43-047-53407	NBU 922-33E4BS	Sec 33 T09S R22E 2414 FNL 0675 FWL
	BHL	Sec 33 T09S R22E 2278 FNL 0508 FWL
43-047-53408	NBU 922-33E1CS	Sec 33 T09S R22E 2420 FNL 0683 FWL
	BHL	Sec 33 T09S R22E 1904 FNL 0487 FWL
<b>NBU 922-33F PAD</b>		
43-047-53387	NBU 922-33B1CS	Sec 33 T09S R22E 1955 FNL 2480 FWL
	BHL	Sec 33 T09S R22E 0579 FNL 1815 FEL
43-047-53388	NBU 922-33B4BS	Sec 33 T09S R22E 1949 FNL 2488 FWL
	BHL	Sec 33 T09S R22E 0910 FNL 1814 FEL
43-047-53389	NBU 922-33B4CS	Sec 33 T09S R22E 1943 FNL 2497 FWL
	BHL	Sec 33 T09S R22E 1241 FNL 1814 FEL
43-047-53390	NBU 922-33F1BS	Sec 33 T09S R22E 1984 FNL 2439 FWL
	BHL	Sec 33 T09S R22E 1487 FNL 1992 FWL
43-047-53392	NBU 922-33F1CS	Sec 33 T09S R22E 1989 FNL 2431 FWL
	BHL	Sec 33 T09S R22E 1839 FNL 2060 FWL
43-047-53393	NBU 922-33F4BS	Sec 33 T09S R22E 1995 FNL 2423 FWL
	BHL	Sec 33 T09S R22E 2197 FNL 2068 FWL

RECEIVED: December 20, 2012



API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53394	NBU 922-33G4BS	Sec 33 T09S R22E 1972 FNL 2456 FWL BHL Sec 33 T09S R22E 2027 FNL 1738 FEL
43-047-53395	NBU 922-33G4CS	Sec 33 T09S R22E 1978 FNL 2448 FWL BHL Sec 33 T09S R22E 2439 FNL 1818 FEL
43-047-53396	NBU 922-33G1BS	Sec 33 T09S R22E 1961 FNL 2472 FWL BHL Sec 33 T09S R22E 1628 FNL 1811 FEL
<b>NBU 922-33H PAD</b>		
43-047-53399	NBU 922-33A4BS	Sec 33 T09S R22E 2221 FNL 0235 FEL BHL Sec 33 T09S R22E 0745 FNL 0493 FEL
43-047-53400	NBU 922-33A4CS	Sec 33 T09S R22E 2222 FNL 0245 FEL BHL Sec 33 T09S R22E 1076 FNL 0493 FEL
43-047-53401	NBU 922-33H1CS	Sec 33 T09S R22E 2223 FNL 0265 FEL BHL Sec 33 T09S R22E 1737 FNL 0493 FEL
43-047-53402	NBU 922-33H1BS	Sec 33 T09S R22E 2222 FNL 0255 FEL BHL Sec 33 T09S R22E 1406 FNL 0493 FEL
43-047-53403	NBU 922-33I1BS	Sec 33 T09S R22E 2223 FNL 0275 FEL BHL Sec 33 T09S R22E 2434 FSL 0490 FEL
43-047-53404	NBU 922-33J1BS	Sec 33 T09S R22E 2225 FNL 0305 FEL BHL Sec 33 T09S R22E 2401 FSL 1814 FEL
43-047-53405	NBU 922-34D4CS	Sec 33 T09S R22E 2220 FNL 0205 FEL BHL Sec 34 T09S R22E 1233 FNL 0825 FWL
43-047-53406	NBU 922-33H4BS	Sec 33 T09S R22E 2224 FNL 0295 FEL BHL Sec 33 T09S R22E 2068 FNL 0493 FEL
<b>NBU 922-33M PAD</b>		
43-047-53409	NBU 922-33L4CS	Sec 33 T09S R22E 0833 FSL 0289 FWL BHL Sec 33 T09S R22E 1409 FSL 0822 FWL
43-047-53410	NBU 922-33M1BS	Sec 33 T09S R22E 0837 FSL 0297 FWL BHL Sec 33 T09S R22E 1078 FSL 0822 FWL
43-047-53411	NBU 922-33M1CS	Sec 33 T09S R22E 0828 FSL 0280 FWL BHL Sec 33 T09S R22E 0746 FSL 0822 FWL
43-047-53412	NBU 922-33M4BS	Sec 33 T09S R22E 0824 FSL 0271 FWL BHL Sec 33 T09S R22E 0415 FSL 0822 FWL
43-047-53413	NBU 922-33M4CS	Sec 33 T09S R22E 0819 FSL 0262 FWL BHL Sec 33 T09S R22E 0065 FSL 0824 FWL
<b>NBU 922-33N PAD</b>		
43-047-53414	NBU 922-33K4BS	Sec 33 T09S R22E 0894 FSL 2273 FWL BHL Sec 33 T09S R22E 1905 FSL 2143 FWL
43-047-53424	NBU 922-33K4CS	Sec 33 T09S R22E 0886 FSL 2267 FWL BHL Sec 33 T09S R22E 1563 FSL 2141 FWL
43-047-53427	NBU 922-33N4CS	Sec 33 T09S R22E 0870 FSL 2255 FWL BHL Sec 33 T09S R22E 0069 FSL 2125 FWL
43-047-53428	NBU 922-33N1BS	Sec 33 T09S R22E 0878 FSL 2261 FWL BHL Sec 33 T09S R22E 1242 FSL 2143 FWL
43-047-53430	NBU 922-33N4BS	Sec 33 T09S R22E 0862 FSL 2249 FWL BHL Sec 33 T09S R22E 0507 FSL 2121 FWL
<b>NBU 922-33P PAD</b>		
43-047-53416	NBU 922-33P1CS	Sec 33 T09S R22E 0657 FSL 0372 FEL BHL Sec 33 T09S R22E 0972 FSL 0449 FEL



API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53417	NBU 922-33P1BS	Sec 33 T09S R22E 0662 FSL 0364 FEL BHL Sec 33 T09S R22E 1306 FSL 0507 FEL
43-047-53418	NBU 922-33I4CS	Sec 33 T09S R22E 0667 FSL 0355 FEL BHL Sec 33 T09S R22E 1664 FSL 0494 FEL
43-047-53422	NBU 922-33P4CS	Sec 33 T09S R22E 0652 FSL 0381 FEL BHL Sec 33 T09S R22E 0229 FSL 0495 FEL
43-047-53423	NBU 922-33P4BS	Sec 33 T09S R22E 0648 FSL 0390 FEL BHL Sec 33 T09S R22E 0613 FSL 0431 FEL
<b>NBU 922-33O PAD</b>		
43-047-53419	NBU 922-33O4CS	Sec 33 T09S R22E 0661 FSL 1513 FEL BHL Sec 33 T09S R22E 0095 FSL 1837 FEL
43-047-53420	NBU 922-33O4BS	Sec 33 T09S R22E 0654 FSL 1520 FEL BHL Sec 33 T09S R22E 0403 FSL 1806 FEL
43-047-53421	NBU 922-33O1CS	Sec 33 T09S R22E 0668 FSL 1506 FEL BHL Sec 33 T09S R22E 0746 FSL 1814 FEL
43-047-53425	NBU 922-33O1BS	Sec 33 T09S R22E 0676 FSL 1499 FEL BHL Sec 33 T09S R22E 1077 FSL 1814 FEL
43-047-53426	NBU 922-33J4CS	Sec 33 T09S R22E 0683 FSL 1493 FEL BHL Sec 33 T09S R22E 1408 FSL 1814 FEL
43-047-53429	NBU 922-33J4BS	Sec 33 T09S R22E 0691 FSL 1486 FEL BHL Sec 33 T09S R22E 1739 FSL 1814 FEL
<b>NBU 921-17C PAD</b>		
43-047-53431	NBU 921-17C1CS	Sec 17 T09S R21E 0620 FNL 2019 FWL BHL Sec 17 T09S R21E 0413 FNL 2158 FWL
43-047-53432	NBU 921-17C1BS	Sec 17 T09S R21E 0625 FNL 2010 FWL BHL Sec 17 T09S R21E 0062 FNL 2158 FWL
<b>NBU 921-17B PAD</b>		
43-047-53433	NBU 921-17B1BS	Sec 17 T09S R21E 0465 FNL 1960 FEL BHL Sec 17 T09S R21E 0179 FNL 1835 FEL
43-047-53434	NBU 921-17A1CS	Sec 17 T09S R21E 0463 FNL 1940 FEL BHL Sec 17 T09S R21E 0413 FNL 0497 FEL
43-047-53435	NBU 921-17B4BS	Sec 17 T09S R21E 0467 FNL 1970 FEL BHL Sec 17 T09S R21E 0909 FNL 1824 FEL
43-047-53436	NBU 921-17A1BS	Sec 17 T09S R21E 0464 FNL 1950 FEL BHL Sec 17 T09S R21E 0110 FNL 0497 FEL

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,  
ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2012.12.20 13:54:48 -0700

bcc: File - Natural Buttes Unit  
 Division of Oil Gas and Mining  
 Central Files  
 Agr. Sec. Chron  
 Fluid Chron

MCoulthard:mc:12-20-12

RECEIVED: December 20, 2012

API	Well No	Section	Township	Surface Location
43-047-53386	NBU 922-33L4BS	Sec 33	T09S R22E	2440 FNL 0705 FWL
43-047-53387	NBU 922-33B1CS	Sec 33	T09S R22E	1955 FNL 2480 FWL
43-047-53388	NBU 922-33B4BS	Sec 33	T09S R22E	1949 FNL 2488 FWL
43-047-53389	NBU 922-33B4CS	Sec 33	T09S R22E	1943 FNL 2497 FWL
43-047-53390	NBU 922-33F1BS	Sec 33	T09S R22E	1984 FNL 2439 FWL
43-047-53391	NBU 922-33L1CS	Sec 33	T09S R22E	2447 FNL 0713 FWL
43-047-53392	NBU 922-33F1CS	Sec 33	T09S R22E	1989 FNL 2431 FWL
43-047-53393	NBU 922-33F4BS	Sec 33	T09S R22E	1995 FNL 2423 FWL
43-047-53394	NBU 922-33G4BS	Sec 33	T09S R22E	1972 FNL 2456 FWL
43-047-53395	NBU 922-33G4CS	Sec 33	T09S R22E	1978 FNL 2448 FWL
43-047-53396	NBU 922-33G1BS	Sec 33	T09S R22E	1961 FNL 2472 FWL
43-047-53397	NBU 922-33K1BS	Sec 33	T09S R22E	2434 FNL 0698 FWL
43-047-53398	NBU 922-33F4CS	Sec 33	T09S R22E	2427 FNL 0690 FWL
43-047-53399	NBU 922-33A4BS	Sec 33	T09S R22E	2221 FNL 0235 FEL
43-047-53400	NBU 922-33A4CS	Sec 33	T09S R22E	2222 FNL 0245 FEL
43-047-53401	NBU 922-33H1CS	Sec 33	T09S R22E	2223 FNL 0265 FEL
43-047-53402	NBU 922-33H1BS	Sec 33	T09S R22E	2222 FNL 0255 FEL
43-047-53403	NBU 922-33I1BS	Sec 33	T09S R22E	2223 FNL 0275 FEL
43-047-53404	NBU 922-33J1BS	Sec 33	T09S R22E	2225 FNL 0305 FEL
43-047-53405	NBU 922-34D4CS	Sec 33	T09S R22E	2220 FNL 0205 FEL
43-047-53406	NBU 922-33H4BS	Sec 33	T09S R22E	2224 FNL 0295 FEL
43-047-53407	NBU 922-33E4BS	Sec 33	T09S R22E	2414 FNL 0675 FWL
43-047-53408	NBU 922-33E1CS	Sec 33	T09S R22E	2420 FNL 0683 FWL
43-047-53409	NBU 922-33L4CS	Sec 33	T09S R22E	0833 FSL 0289 FWL
43-047-53410	NBU 922-33M1BS	Sec 33	T09S R22E	0837 FSL 0297 FWL
43-047-53411	NBU 922-33M1CS	Sec 33	T09S R22E	0828 FSL 0280 FWL
43-047-53412	NBU 922-33M4BS	Sec 33	T09S R22E	0824 FSL 0271 FWL
43-047-53413	NBU 922-33M4CS	Sec 33	T09S R22E	0819 FSL 0262 FWL
43-047-53414	NBU 922-33K4BS	Sec 33	T09S R22E	0894 FSL 2273 FWL
43-047-53416	NBU 922-33P1CS	Sec 33	T09S R22E	0657 FSL 0372 FEL
43-047-53417	NBU 922-33P1BS	Sec 33	T09S R22E	0662 FSL 0364 FEL
43-047-53418	NBU 922-33I4CS	Sec 33	T09S R22E	0667 FSL 0355 FEL
43-047-53419	NBU 922-33O4CS	Sec 33	T09S R22E	0661 FSL 1513 FEL
43-047-53420	NBU 922-33O4BS	Sec 33	T09S R22E	0654 FSL 1520 FEL
43-047-53421	NBU 922-33O1CS	Sec 33	T09S R22E	0668 FSL 1506 FEL
43-047-53422	NBU 922-33P4CS	Sec 33	T09S R22E	0652 FSL 0381 FEL
43-047-53423	NBU 922-33P4BS	Sec 33	T09S R22E	0648 FSL 0390 FEL
43-047-53424	NBU 922-33K4CS	Sec 33	T09S R22E	0886 FSL 2267 FWL
43-047-53425	NBU 922-33O1BS	Sec 33	T09S R22E	0676 FSL 1499 FEL
43-047-53426	NBU 922-33J4CS	Sec 33	T09S R22E	0683 FSL 1493 FEL
43-047-53427	NBU 922-33N4CS	Sec 33	T09S R22E	0870 FSL 2255 FWL
43-047-53428	NBU 922-33N1BS	Sec 33	T09S R22E	0878 FSL 2261 FWL
43-047-53429	NBU 922-33J4BS	Sec 33	T09S R22E	0691 FSL 1486 FEL
43-047-53430	NBU 922-33N4BS	Sec 33	T09S R22E	0862 FSL 2249 FWL
43-047-53431	NBU 921-17C1CS	Sec 17	T09S R21E	0620 FNL 2019 FWL
43-047-53432	NBU 921-17C1BS	Sec 17	T09S R21E	0625 FNL 2010 FWL
43-047-53433	NBU 921-17B1BS	Sec 17	T09S R21E	0465 FNL 1960 FEL
43-047-53434	NBU 921-17A1CS	Sec 17	T09S R21E	0463 FNL 1940 FEL
43-047-53435	NBU 921-17B4BS	Sec 17	T09S R21E	0467 FNL 1970 FEL
43-047-53436	NBU 921-17A1BS	Sec 17	T09S R21E	0464 FNL 1950 FEL

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/2012

API NO. ASSIGNED: 43047533860000

WELL NAME: NBU 922-33L4BS

OPERATOR: KERR-MCGEE OIL &amp; GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SWNW 33 090S 220E

Permit Tech Review: ☒

SURFACE: 2440 FNL 0705 FWL

Engineering Review: ☒

BOTTOM: 1740 FSL 0822 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 39.99307

LONGITUDE: -109.45180

UTM SURF EASTINGS: 632170.00

NORTHINGS: 4428136.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01191-A

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: FEDERAL - WYB000291
- ☐ Potash
- ☒ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: 43-8496
- ☐ RDCC Review:
- ☐ Fee Surface Agreement
- ☒ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

- ☐ R649-2-3.
- Unit: NATURAL BUTTES
- ☐ R649-3-2. General
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: Cause 173-14
- Effective Date: 12/2/1999
- Siting: Suspends General Siting
- ☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet  
4 - Federal Approval - dmason  
15 - Directional - dmason  
17 - Oil Shale 190-5(b) - dmason

RECEIVED: December 27, 2012



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** NBU 922-33L4BS  
**API Well Number:** 43047533860000  
**Lease Number:** UTU-01191-A  
**Surface Owner:** FEDERAL  
**Approval Date:** 12/27/2012

### Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 14 2012

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU01191A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		7. If Unit or CA Agreement, Name and No. 891008900A
Contact: CARA MAHLER Email: cara.mahler@anadarko.com		8. Lease Name and Well No. NBU 922-33L4BS
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6029 Fx: 720-929-7029	9. API Well No. 43-047-53386
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 2440FNL 705FWL 39.993094 N Lat, 109.451905 W Lon At proposed prod. zone NWSW 1740FSL 822FWL 39.990037 N Lat, 109.451478 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 48 MILES SOUTH OF VERNAL		11. Sec., T., R., M., or Blk. and Survey or Area Sec 33 T9S R22E Mer SLB SME: BLM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 822	16. No. of Acres in Lease 1363.21	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 725	19. Proposed Depth 10301 MD 10124 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4934 GL	22. Approximate date work will start 05/01/2012	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) CARA MAHLER Ph: 720-929-6029	Date 11/14/2012
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAY 29 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #160330 verified by the BLM Well Information System  
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal  
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/17/2012 (13JN0094AE)

NOTICE OF APPROVAL

JUN 03 2013

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Kerr McGee Oil & Gas Onshore, LP  
Well No: NBU 922-33L4BS  
API No: 43-047-53386

Location: SWNW, Sec. 33, T9S, R22E  
Lease No: UTU-01191A  
Agreement: Natural Butte

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a>
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
  - Air Quality
  - Soils
  - Vegetation: *Sclerocactus wetlandicus*
  - Wildlife: Colorado River Fish
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- On BLM administered land, KMG would adhere to seasonal and spatial buffers applicable to occupied raptor nests in the GNBPA in consideration of the Raptor BMPs from Appendix A of the Vernal RMP. No construction or drilling activities for the Bonanza 1023-8P, Bonanza 1023-17B, and Bonanza 1023-17G pads from January 1<sup>st</sup> through August 31<sup>st</sup> to minimize impacts during golden eagle nesting.
- Paleontological monitoring by a BLM permitted paleontologist is required for Well Pads 922-33A, 922-33D, 922-33E, 922-33H, and 922-33N; Access Road for 922-33E during all ground disturbing activities (BLM 2012b; BLM 2013c).

- Construction and development activities will be prohibited at the Well pads 922-34E, 922-34F, and 922-34L locations from 5/15 to 6/30 (BLM 2008a).
- Construction and development activities for Well Pads 922-33D and 922-33F will be prohibited from 12/1 through 9/31, pending the results of a preconstruction nest occupancy survey for Great Horned Owl Nest (BLM 2012b; BLM 2008a).
- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 3/1 through 8/15, pending the results of a preconstruction nest occupancy survey for Red-Tailed Hawk Nest (BLM 2012b; BLM 2008a).
- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 4/1 through 8/31, pending the results of a preconstruction nest occupancy survey for Prairie Falcon Nest (BLM 2012b; BLM 2008a).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to avoid damaging fences, gates, and cattle guards, including upgrading cattle guard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattle guard and gate installed per BLM guidance.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.



- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01191-A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-33L4BS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2440 FNL 0705 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 33 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047533860000
<b>PHONE NUMBER:</b> 720 929-6510		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/27/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<b>NAME (PLEASE PRINT)</b> Teena Paulo		<b>PHONE NUMBER</b> 720 929-6236
<b>SIGNATURE</b> N/A		<b>TITLE</b> Staff Regulatory Specialist
<b>DATE</b> 10/18/2013		<b>APPROVED BY:</b> <div style="text-align: center;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b>   <b>Date:</b> October 24, 2013  <b>By:</b> </div>



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43047533860000**

**API:** 43047533860000

**Well Name:** NBU 922-33L4BS

**Location:** 2440 FNL 0705 FWL QTR SWNW SEC 33 TWNP 090S RNG 220E MER S

**Company Permit Issued to:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 12/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
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- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Teena Paulo

**Date:** 10/18/2013

**Title:** Staff Regulatory Specialist **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01191-A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-33L4BS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2440 FNL 0705 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 33 Township: 09.0S Range: 22.0E Meridian: S		<b>9. API NUMBER:</b> 43047533860000
<b>PHONE NUMBER:</b> 720 929-6111		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/19/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<div style="color: red; font-weight: bold;">             Approved by the              November 25, 2014              Oil, Gas and Mining           </div> <div style="color: red; font-weight: bold;">             Date: _____              By:  </div>		
<b>NAME (PLEASE PRINT)</b> Kay E. Kelly	<b>PHONE NUMBER</b> 720 929 6582	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/19/2014	





**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047533860000**

API: 43047533860000

Well Name: NBU 922-33L4BS

Location: 2440 FNL 0705 FWL QTR SWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

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- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Kay E. Kelly

Date: 11/19/2014

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 02 2015

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

BLM

5. Lease Serial No.  
UTU01191A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
891008900A8. Well Name and No.  
NBU 922-33L4BS9. API Well No.  
43-047-53386-00-X110. Field and Pool, or Exploratory  
NATURAL BUTTES11. County or Parish, and State  
UINTAH COUNTY, UT**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

KERR MCGEE OIL &amp; GAS ONSHORE

Contact: JOEL MALEFYT

Email: joel.malefyt@anadarko.com

## 3a. Address

1368 SOUTH 1200 EAST  
VERNAL, UT 84078

## 3b. Phone No. (include area code)

Ph: 720-929-6828  
Fx: 720-929-7828

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 33 T9S R22E SWNW 2440FNL 705FWL  
39.993094 N Lat, 109.451905 W Lon

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

KPD - 5/29/13

NEPA - 2013-74 EA

RECEIVED

APR 20 2015

CONDITIONS OF APPROVAL ATTACHED

DIV. OF OIL, GAS &amp; MINING

VERNAL FIELD OFFICE

ENG. REP 4/7/15

GEOL. \_\_\_\_\_

E.S. \_\_\_\_\_

PET. \_\_\_\_\_

RECL. \_\_\_\_\_

## 14. I hereby certify that the foregoing is true and correct.

Electronic Submission #297055 verified by the BLM Well Information System  
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal  
Committed to AFMSS for processing by JOHNETTA MAGEE on 04/06/2015 (15JM1509SE)

Name (Printed/Typed) JOEL MALEFYT

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/02/2015

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Assistant Field Manager  
Lands & Mineral Resources

APR 10 2015

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

VERNAL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

UDOGM

# Revisions to Operator-Submitted EC Data for Sundry Notice #297055

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER NOI	APDCH NOI
Lease:	UTU01191	UTU01191A
Agreement:	UTU63047A	891008900A (UTU63047A)
Operator:	KERR MCGEE OIL & GAS LP PO BOX 173779 DENVER, CO 80202-3779 Ph: 720-929-6000	KERR MCGEE OIL & GAS ONSHORE L 1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 435.789.3995
Admin Contact:	JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM  Ph: 720-929-6828 Fx: 720-929-7828	JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com  Ph: 720-929-6828 Fx: 720-929-7828
Tech Contact:	JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM  Ph: 720-929-6828 Fx: 720-929-7828	JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com  Ph: 720-929-6828 Fx: 720-929-7828
Location:		
State:	UT	UT
County:	UINTAH	UINTAH
Field/Pool:	NATURAL BUTTES	NATURAL BUTTES
Well/Facility:	NBU 922-33L4BS Sec 33 T9S R22E	NBU 922-33L4BS Sec 33 T9S R22E SWNW 2440FNL 705FWL 39.993094 N Lat, 109.451905 W Lon

# **CONDITIONS OF APPROVAL**

## **Kerr McGee Oil and Gas Onshore LP.**

### **Notice of Intent APD Extension**

**Lease:** UTU-01191A  
**Well:** NBU 922-33L4BS  
**Location:** SWNW Sec 33-T9S-R22E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 05/29/2017.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01191-A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
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<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 922-33L4BS
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<b>PHONE NUMBER:</b> 720 929-6500		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
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<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
<div style="color: red; font-weight: bold;">             Approved by the              Utah Division of              Oil, Gas and Mining           </div> <div style="color: red; font-weight: bold;">             Date: _____              By:  </div>		
<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/4/2015	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047533860000**

API: 43047533860000

Well Name: NBU 922-33L4BS

Location: 2440 FNL 0705 FWL QTR SWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

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- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Jennifer Thomas

Date: 12/4/2015

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<div style="color: red; font-weight: bold;">             Approved by the              November 08, 2016              Oil, Gas and Mining           </div> <div style="color: red; font-weight: bold;">             Date: _____              By:  </div>		
<b>NAME (PLEASE PRINT)</b> Candice Barber		<b>PHONE NUMBER</b> 435 781-9749
<b>SIGNATURE</b> N/A		<b>TITLE</b> HSE Representative
<b>DATE</b> 11/3/2016		



## The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047533860000

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Signature: Candice Barber

Date: 11/3/2016

Title: HSE Representative Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.